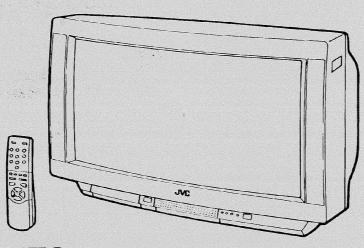
# JVC

# **SERVICE MANUAL**

COLOUR HEUEVISION

AV-32WZ2EN(A) AV-32WZ2EP(A) AV-28WZ2EN(A) AV-28WZ2EP(A) BASIC CHASSIS

MB



# CONTENTS

	SPECIFICATIONS · · · · · · · · · · · · · · · · · · ·
	SAFETY PRECAUTIONS · · · · · · · · · · · · · · · · · · ·
	SPECIFIC SERVICE INSTRUCTIONS 5
	DISASSEMBLY PROCEDURE · · · · · · · · · · · · · · · · · · ·
	SERVICE ADJUSTMENTS
	PARTS LIST · · · · · · · · · · · · · · · · · · ·
	OPERATING INSTRUCTION
*	STANDARD CIRCUIT DIAGRAM ······2-1

# **SPECIFICATIONS**

item	Content			
nem	32'	28'		
Dimensions ( W×H×D )	805mm × 550mm × 550mm	716mm × 489mm × 496mm		
Mass	54.8kg	40.1kg		
TV RF System	CCIR(B/G,I,L) EN MODEL:B/G ONLY	CCIR(B/G,I,L) EN MODEL:B/G ONLY		
Colour System	PAL / SECAM / NTSC( Only in EXT mode )	PAL / SECAM / NTSC( Only in EXT mode )		
Stereo System	A2/NICAM	A2/NICAM		
Teletext System	TOP/FLOF	TOP/FLOF		
Receiving Frequency				
VHF	47MHz~ 470MHz	47MHz~ 470MHz		
UHF	470MHz~862MHz	470MHz~862MHz		
		-		
Intermediate Frequency				
VIF Carrier	, , , ,	38.9MHz(B/G,I,L) EN MODEL:B/G ONLY		
SIF Carrier	33.4( 5.5MHz ),33.5(6.0MHz)	33.4( 5.5MHz ),33.5(6.0MHz)		
	EN MODEL: 5.5MHz ONLY	EN MODEL: 5.5MHz ONLY		
Colour Sub Carrier Freq.				
PAL	4.43MHz	4.43MHz		
SECAM	4.0625MHz / 4.25MHz	4.0625MHz / 4.25MHz		
NTSC	3.58MHz / 4.43MHz	3.58MHz / 4.43MHz		
Power Input	AC 220V~240V , 50Hz	AC 220V~240V , 50Hz		
Power Consumption	160W( Max ) /150W( Avg )	155W( Max ) /145W( Avg )		
Picture Tube	Visible size : 76cm, Measured diagonally	Visible size : 66cm, Measured diagonally		
High Voltage	31.0Kv +1kV (at zero beam current) -1.5kV	31.0Kv (at zero beam current)		
Speaker	φ10cm round (4Ω)×2	φ10cm round (4Ω)×2		
Audio Output	20W + 20W	20W + 20W		
EXT-1/EXT-2/EXT-3	21-pin Euro connector( SCART socket )	21-pin Euro connector( SCART socket )		
(Input/Output)				
EXT4(Input) Video	1Vp-p 75Ω(RCA pin jack)	1Vp-p 75 Ω ( RCA pin jack )		
Audio(L/R)	500mVrms(-4dBs), High Impedance (RCA pin	500mVrms(-4dBs), High Impedance (RCA pir		
A said lance Town	jack)	jack)		
Aerial Input Term	75Ω unbalanced, Coaxial	75 Ω unbalanced, Coaxial		
Headphone jack	Stereo mini jack ( $\phi$ 3.5mm )	Stereo mini jack ( \$3.5mm )		
Remote Control Unit	RM-C793	RM-C793		
	AAA(R03) dry battery × 2	AAA( R03 ) dry battery × 2		

Design & specification are subject to change without notice.

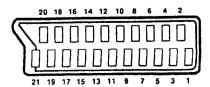
★ Manufactured under license from Dolby Laboratories Licensing Corporation.
"Dolby" and the double-D symbol [][] are trademarks of Dolby Laboratories Licensing Corporation.

# ■21-pin Euro connector (SCART socket): EXT-1 / EXT-2 / EXT-3

(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

Pin No.	Signal Designation	Matching Value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mVrms(Nominal),	0	0	NC
Low impedance		Low impedance	(TV OUT)	(LINE OUT)	
2	AUDIO R input	500mVrms(Nominal), High impedance	0	0	0
3	AUDIO L output	500mVrms(Nominal),	0	0	NC
		Low impedance	(TV OUT)	(LINE OUT)	
4	AUDIO GND		0	0	0
5	GND (B)		0	0	0
6	AUDIO L input	500mVrms(Nominal), High impedance	0	0	0
7	B input	700mV <sub>B-W</sub> , 75Ω	0	NC	NC
8	FUNCTON SW	Low : 0-3V, High : 8-12V,	0	0	0
	(SLOW SW)	High impedance			
9	GND (G)		0	0	0
10	_		NC	-	NC
10	SCL3			0	
11	G input	700mV <sub>B-W</sub> , 75Ω	0	NC	NC
12	_		NC	-	NC
12	SDA3		_	0	
13	GND (R)	*	0	0	0
14	GND (Y <sub>s</sub> )		0	NC	NC
15	R / C input	R : 700mV <sub>B-W</sub> , 75Ω	0	0	0
	, '	C : 300mV <sub>P-P</sub> , 75Ω	(only R)	(only C)	(only C)
16	Ys input	Low : 0 - 0.4, High : 1 - 3V, 75 Ω	0	NC	NC
17	GND(VIDEO output)		0	0	0
18	GND(VIDEO input)		0	0	0
19	VIDEO output	1V <sub>s-w</sub> (Negative going sync),	0	0	NC
,,,		75Ω	(TV)	(LINE OUT)	
20	VIDEO / Y input	1V <sub>S-W</sub> (Negative going sync), 75Ω	0	0	0
21	COMMON GND		0	0	0

[Pin assignment]



- 1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel
- 2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting
- 3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (A) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock fire or other hazards
- 4. Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.

Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (1) side GND, the ISOLATED(NEUTRAL): ( ♣ ) side GND and EARTH: ( ⊕ ) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.

If above note will not be kept, a fuse or any parts will be broken

- 5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- 6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete
- 7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
- 8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred. those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement

#### 9 Isolation Check

#### (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs. metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock

#### (1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.

. Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

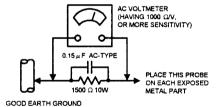
This method of test requires a test equipment not generally found in the service trade

#### (2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

#### Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage -across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).



# SPECIFIC SERVICE INSTRUCTIONS

#### REPLACEMENT OF CHIP COMPONENT

#### **ECAUTIONS**

- T. Avoid heating for more than 3 seconds.
- 2. Do not rub the electrodes and the resist parts of the pattern.
- 3. When removing a chip part, melt the solder adequately.
- 4. Do not reuse a chip part after removing it.

#### ■ SOLDERING IRON

- 1. Use a high insulation soldering iron with a thin pointed end of it.
- 2. A 30w soldering iron is recommended for easily removing parts.

#### **■ REPLACEMENT STEPS**

- 1. How to remove Chip parts
- · Resistors, capacitors, etc
- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end



(2) Shift with tweezers and remove the chip part



#### Transistors, diodes, variable resistors, etc.

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



Note: After removing the part, remove remaining solder from the pattern.

#### 2. How to install Chip parts

#### Resistors, capacitors, etc

(1) Apply solder to the pattern as indicated in the figure.

AV-32WZ2EN

AV-32WZ2EP

AV-28WZ2EN AV-28WZ2EP



(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.



#### ◆ Transistors, diodes, variable resistors, etc

- (1) Apply solder to the pattern as indicated in the figure
- (2) Grasp the chip part with tweezers and place it on the solder
- (3) First solder lead A as indicated in the figure.



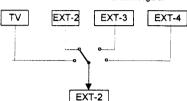
(4) Then solder leads B and C



No.51239C

#### **FEATURES**

- By preference, users can select the picture size from PANORAMIC, REGULAR, FULL, 14:9 ZOOM, 16:9 ZOOM, 16:9 ZOOM SUB TITLE modes. When the TV unit received WSS picture signal, the picture can be changed to 16:9 ZOOM mode automatically.
- The TELETEXT SYSTEM has a built-in TOP and FLOF system.
- Thanks to the newly employed DSP control micro computer, users can select 3D-PHONIC, and enjoy Surround effect at each mode.



#### DISASSEMBLY PROCEDURE

#### REMOVING THE REAR COVER

- 1. Unplug the power cord.
- 2. Remove the 13 screws marked "A" as shown in the Fig. 1.
- 3. Withdraw the rear cover toward you.

#### REMOVING THE CHASSIS

- · After removing the rear cover
- Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet
- Withdraw the chassis backward. (If necessary, take off the wire clamp, connectors etc.)

#### REMOVING THE AV TERMINAL BOARD

- · After removing the rear cover.
- 1. Remove the 6 screws marked "B" as shown in the Fig. 1.
- While raising the claw marked "C" , remove the top of the AV TERMINAL BOARD slightly in the direction of arrow "D" as shown in Fig. 2.

#### **REMOVING THE SPEAKER BOX**

- · After removing the rear cover.
- 1. Remove the 2 screws marked "E" as shown in Fig. 1.
- Follow the same steps when removing the other hand speaker box.

NOTE: When removing the screws marked "E" of the speaker box, remove the lower side screw first, and then remove the upper screw.

can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.

In accordance with the brightness in a room, the brightness.

· Because this TV unit corresponds to multiplex broadcast, users

- In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- Users can make VTR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.

#### CHECKING THE PW BOARD

To check the back side of the PW Board.

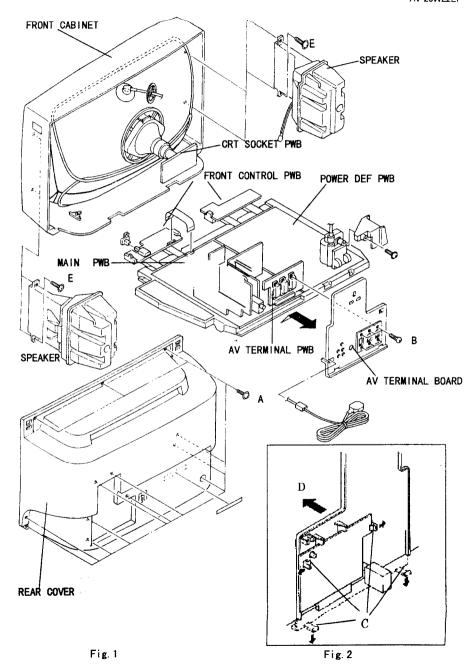
- 1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
- Erect the chassis vertically so that you can easily check the back side of the PW Board.

#### [CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS' Y) is connected to the CRT SOCKET PW board.

#### WIRE CLAMPING AND CABLE TYING

- 1. Be sure to clamp the wire.
- Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.



No.51239C

#### REMOVING THE CRT

- \*Replacement of the CRT should be performed by 2 or more persons
- · After removing the cover, chassis etc.,
- 1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.3).
- 2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.4.
- 3. Remove 4 screws marked by arrows with a box type screw driver as shown in Fig.4.
- . Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.
- 4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.5.
- . The CRT should be assembled according to the opposite sequence of its dismounting steps.
- . The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm

#### COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

. Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.6.

Wipe around the anode button with clean and dry cloth. (Fig.6) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not stick to the anode button. (Fig.7)

#### \* Silicon grease product No. KS - 650N

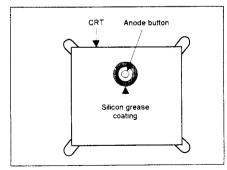
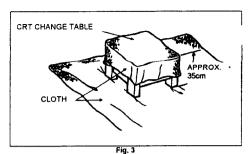
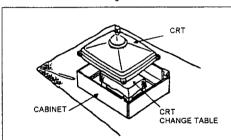


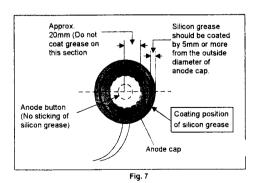
Fig. 6



CRT CRT CHANGE TABLE **P**←BOX TYPE SCREW DRIVER

Fig. 4





REPLACEMENT OF MEMORY ICS

#### 1. Memory ICs

This TV use memory ICs (EEP-ROM IC). In the memory ICs, there are memorized data for correctly operating the video and deflection circuits. When replacing memory ICs, be sure to use ICs written with the initial values of data

#### 2. Procedure for replacing memory ICs

# PROCEDURE (1) Power off Switch the power off and unplug the power code from the outlet. SERVICE MENU (2) Replace ICs. Be sure to use memory ICs written with the initial data values. 3 AUDIO 3) Power on Plug the power code into the outlet and switch the power on. (4) Check and set SYSTEM CONSTANT SET:

- 1) Press the INFORMATION key and the MUTE key of the REMOTE CONTROL UNIT simultaneously.
- 2) The SERVICE MENU screen of Fig. 1 will be displayed.
- 3) While the SERVICE MENU is displayed, press the INFORMATION key and MUTE key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed.
- 4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION UP/DOWN key, and set the correct value with the FUNCTION -/+ key.
- 5) Press the MENU key to memorize the setting value.
- 6) Press the INFORMATION key twice, and return to the normal

#### (5) Setting of receive channels Set the receive channel.

For setting, refer to the OPERATING INSTRUCTIONS.

#### (6) User settings

Check the user setting values of Table 2, and if setting value is different, set the correct value. For setting, refer to the OPERATING INSTRUCTIONS.

#### 7) Setting of SERVICE MENU

Verify the setting items of the SERVICE MENU of Table 3, and reset where necessary.

For setting, refer to the SERVICE ADJUSTMENTS

#### SERVICE MENU 2 VIC 4 DEF 5 VSM PRESET 6 VPS 8 AUTO PROGRAM (CFF) 1-8 SELECT ( EX.T

Fig.1

#### SYSTEM CONSTANT SET

## SYSTEM CONSTANT SET

SOFT VER =(V\* \*\*\*\*) COUNTRY FR -+ ( STORE BEXIT JVC MB WIDE VOO M37207MF-XXXSP

Fig.2

NAME OF REMOTE CONTROL KEY

Names of key	key
INFORMATION	0
MUTE	×
MENU	©K)
FUNCTION UP/DOWN	<b>(3:5)</b>
FUNCTION -/+	<b>⊙</b> ⊙

### SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

Setting item	Setting content	Setting value				
Setting item		AV-32WZ2EN	AV-32WZ2EP	AV-28WZ2EN	AV-28WZ2EP	
1. COUNTRY	→ EN → EP → EK	EN	EP	EN	EP	
2. INCH	28 → 32 → 24 —	32	32	28	28	
3. MODEL	→ WP2 — → WZ2 —	WZ2	WZ2	WZ2	WZ2	

#### **USER SETTING VALUES (TABLE 2)**

Setting item		Setting value	Setting	g item	Setting value
SUB POWER		ON		MODE	CINEMA/SPORT
CHANNEL		1 POSITION	PROLOGIC	LEVEL	CENTER
CHANNEL PRESET VOLUME		L PRESET See; OPERATING INSTRUCTUONS		TV/SPEAKER	L/R
		Appropriate sound volume		VOLUME	MAX
TV / EXT		TV		MODE	PHANTON
DISPLAY		CHANNEL DISPLAY	DOLBY PRO	TV SPEAKER	L∕R
ZOOM MODE		REGULAR	LOGIC	TEST TONE	OFF
POWER BAS	s	OFF		VOLUME	MAX
PIP			INSTALL	LANGUAGE	ENGLISH
	LFR	OFF	EXT SOURCE	EXT SETTING	ID:NO INPUT S-IN:NO INPUT
	VNR	OFF	2,7,000,102	DUBBING	EXT-1→EXT-2
	4:3 AUTO ASPECT	PANORAMIC		SLEEP TIMER	OFF
PICTURE FEATURE	COLOR SYSTEM	TV:depend on PR EXT:AUTO	FEATURES	BLUE BACK	ON
	PIP POSITION			CHILD LOCK	ID NO.0000 all channel off
	MULTI PICTURE			TINT	COOL
	PICTURE TILT	CENTER	PICTURE SETTING	SETTING	RESET
	BASS,TRE BALA	CENTER	Ĭ	ECO	OFF
	SPEAKER	ON			
SOUND	HEAD PHONE VOLUME	20			
SETTING	HEAD PHONE OUTPUT	MAIN			
	HEAD PHONE TV SPEAKER	OFF			
DIGITAL SRR	OUND	OFF			

### **SERVICE MENU SETING ITEMS (TABLE 3)**

Setting item	Setting value
4. DEF.  5. VSM PRESET	1. V-SHIFT 2. V-SLOPE 3. V-SIZE 4. H-CENT 5. H-SIZE 6. EW-PIN 7. EW-COR 8. TRAPEZ 9. V-S.CR 10. EHT-COMP 11. CLAMP  1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. R DRIVE 7. G DRIVE 8. B DRIVE 9. BASS 10. TREBLE VPS  1. MAIN BRIGHT 2. MAIN R-Y 3. MAIN B-Y 4. SUB BRIGHT 5. SUB B-Y 7. V-CENTER 8. H-CENTER ON/OFF
_	5. VSM PRESET COOL NORMAL WARM  6. VPS (Do not adjust) 7. PIP (WZ model cannot be adjusted.)

# SERVICE ADJUSTMENTS

# BEFORE STARTING SERVICE ADJUSTMENT

- 1. There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.
- 2. The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- 3. Turn on the power of the TV and measuring instrument for warming up for at least 30 minutes before starting adjustment.
- 4 Make sure that connection is correctly made to AC power
- 5. If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- 6. Never touch parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

7. Preparation for adjustment (presetting): Unless otherwise specified in the adjustment items, preset the following functions with the REMOTE CONTROL UNIT:

(1) PICTURE MODE (VSM)	COOL	
(2) SLEEP TIMER	OFF	
(3) DIGITAL SURROND	OFF	
(4) BALANCE	CENTER	
(5) ECO	OFF	
(6) ZOOM	REGULAR	

### MEASUREING INSTRUMENT AND FIXTURES

- 1 DC voltmeter (or digital voltmeter)
- 2. Oscilloscope
- 3. Signal generator (Pattern generator) [PAL/SECAM/NTSC]
- 4. Remote control unit

### ADJUSTMENT ITEMS

- Check of B1 voltage.
- Adjustment of FOCUS.
- IF circuit adjustment.
- VSM preset adjust setting.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- AUDIO circuit adjustment. (Do not adjust)

### BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

#### 2. SERVICE MENU ITEMS

With the SERVICE MENU, various settings (adjustments) can be made, and they are broadly classified in the following items of settings (1) 1. IF ..... This mode adjusts the setting values of the IF circuit.

(2) 2.V/C · · · · This mode adjusts the setting values of the VIDEO / CHROMA circuit.

(3) 3.AUDIO/OSD·····This mode adjusts the setting values of the multiplicity SOUND circuit.

(4) 4.DEF ......This mode adjusts the setting values of the DEFLECTION circuit for each aspect mode given below

PANORAMIC (50/60Hz) REGULAR (50/60Hz) 14:9 ZOOM (50/60Hz) 16:9 ZOOM (50/60Hz) 16:9 ZOOM SUB TITLE (50/60Hz) FULL (50/60Hz)

(5) 5.VSM PRSET ..... This mode adjusts the initial setting values of COOL, NOMAL and WARM.

(VSM : Video Status Memory)

(6) 6.VPS ..... This mode shows the monitor of the VPS and PDC (Do not adjust)

(VPS : Video Program System, PDC : Program Delivery Code)

(7) 7.PIP ...... This mode adjusts the setting values of the PIP circuit (But WZ model cannot be adjusted.)

(8) 8.AUTO PROGRAM ...... By turning the power switch on, you can get the state of AUTO PROGRAM. (Do not adjust)

#### 3. BASIC OPERATION OF SERVICE MENU

#### (1) How to enter SERVICE MENU

Press the INFORMATION key and the MUTE key of the REMOTE CONTROL UNIT simultaneously, and the SERVICE MENU screen of Fig. 1 will be displayed.

SER	VICE MENU
SE	RVICE MENU
1. IF	2. V/C
3. AUDIO	4 DEF
	ESET 6 VPS
7. P!P	
8. AUTO PS	ROGRAM (OFF)
1-8 SELEC	CT B EXIT

Fig.1

#### (2) Selection of SUB MENU SCREEN

Press one of keys 1~7 of the REMOTE CONTROL UNIT and select the SUB MENU SCREEN (See Fig. 3), form the SERVICE MENU.

SERVICE MENU - SUB MENU

1. IF

2. V / C

3. AUDIO/OSD

4. DEF.

5. VSM PRESET

6. VPS

7. PIP

8. AUTO PROGRAM

NEME OF REMOTE CONTOROL KEY					
Names of key	key				
INFORMATION					
MUTE	及				
MENU	⊗.				
FUNCTION UP/DOWN	<b>€</b>				
FUNCTION -/+	⊙⊙				

Fig 2

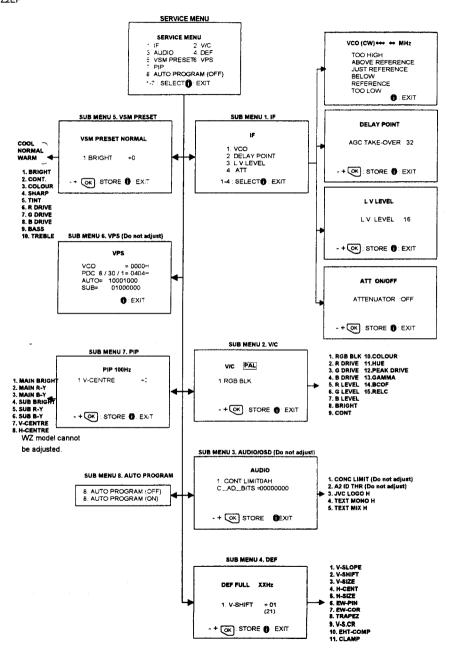


Fig. 3 SUB MENU SCREEN

1) Method of Setting 1.IF [1. VCO] ① 1 Key · · · · · Select 1.iF. ② 1 Key · · · · · Select 1.VCO 3 The VCO (CW) screen will be displayed in yellow when the AFC voltage is at a certain level and in blue when it is at other levels. (4) INFORMATION Key ..... As you press this twice, you will return to the SERVICE MENU. [2. DELAY POINT] ① 1 Key · · · · · Select 1.IF. 2 2 Key · · · · · Select 2.DELAY POINT. ③ FUNCTION -/+ ····· Set (adjust) the setting values of the setting items. MENU Key ..... Memorize the set value. (Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF keys - if you do, the values will not be stored in memory.) ⑤ INFORMATION Key · · · · · · · When this is pressed twice, you will return to the SERVICE MENU. 2) Method of setting 2.V/C, 3.AUDIO, 4.DEF, 5.VSM PRESET and 7.PIP. ① 2~5,7 Key·····Select one from 2. V/C, 3. AUDIO, 4. DEF, 5. VSM PRESET and 7.PIP. ② FUNCTION UP/DOUN Key · · · · · · Select setting items. 3 FUNCTION -/+ ····· Set (adjust) the setting values of the setting items. (When 1.RGB BLK of 2.V/C is selected, press the FUNCTION-/+ key, and the whole will change to a black picture. Press the 2 key, and the screen will return to the original screen.) MENU Key ..... Memorize the setting value. (Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key -  $\,$ if you do, the values will not be stored in memory.) 5 INFOMATION Key ..... Return to the SERVICE MENU screen. 3) Method of setting 6.VPS and 8.AUTO PROGRAM. 6.VPS · · · · · This mode displayed monitor of VPS systems. Do not adjust 8.AUTO PROGRAM · · · · · · · When the MAIN POWER is turned on with the state of AUTO PROGRAM ON, you get a mode that initializes every existing set value including language selection. Because this mode is set

#### (4) Release of SERVICE MENU

(3) Method of Setting

1) After completing the setting, return to the SERVICE MENU, then again press the INFORMATION key.

adjust in this mode.

15

at the factory upon completion of the adjustment, you need not to use it for service. Do not

#### POWER SUPPLY CHECK

ttern	Measuring instrument	Test point	Adjustment part	Description
Check of B1 voltage	Signal generator DC voltmeter	TP-91(B1) TP-E [X connector in POWER DEF PWB]		1. Receive a whole black signal. 2. Connect a DC voltmeter to TP-91(B1) and TP-E. 3. Make sure that the voltage is DC141.4±2.0V.

#### **FOCUS ADJUSTMENT**

16

ltem	Measuring instrument	Test point	Adjustment part	Description
Adjustment of FOCUS	Signal generator		FOCUS VR [In HVT]	32 model   1. By turning the black VR FOCUS 2, adjust the picture so that the 5th vertical line from the left side of the cross-hatch picture becomes thinnest.   2. By turning the red VR FOCUS 1, adjust the picture so that the 3rd honzontal line from the upper side of the cross-hatch picture becomes uniform at the line center and its periphery.   3. Carry out adjustment by repeating the steps 2 and 3 above.   4. Make sure that when the screen is darkened, the lines remain in good focus.   [28 model   1. Receive a cross-hatch signal.   2. While watching the screen, adjust the FOCUS VR to make the vertical and horizontal lines as fine and sharp as possible.   3. Make sure that when the screen is darkened, the lines remain in good focus.
RED Focus			BLACK FOCUS 2  SCREEN	

#### IF CIRCUIT ADJUSTMENT

item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of /CO MAIN)	VCQ(CW) **** TOO HIGH		P. CW TRANSF. (T080) P.L-VL CW TRIM C (C082) [In IF PWB]	Do not make any adjustment unless the adjustment is out way and you cannot get correct PICTURE.  Select 1.IF from the SERVICE MENU. Press 1 key and select 1.VCO. Select a receivable broadcast channel with the CHANNEL ke Turn the core of P. CW TRANSF, until the colour of t characters TOO HIGH displayed on the screen changes frobiue to Yellow. (Step 1)  Turn the core of P. CW TRANSF, until the colour of the core of P. CW TRANSF, until the colour of the core of P. CW TRANSF.
	ABOVE REFER JUST REFEREI BELOW REFER TOO LOW	NCE <del>-</del>	YELLOW	characters TOO LOW changes from blue to <u>Yellow</u> . (Step 2) 6. Then slowly turn back the core of P. CW TRANSF. until to colour of the characters JUST REFFERENCE changes from blue to <u>Yellow</u> . (Step 3) 7. In the district SECAM L broadcast channel with the CHANNI key and adjust the P.L-VL CW TRIM. C in same manner as a above step. And necessary, readjust P. CW. TRANSF. 8. Press the INFORMATION key three times to return to norm screen. 9. Perform CHANNEL PRESET again, and make sure that each
TOO HIG ABOVE R JUST RE	EFERENCE B FERENCE B REFERENCE B	1 →2  eilow → Blue lue → Blue lue → Blue iue → Blue	e → Blue e → <u>Yellow</u>	broadcast is being received properly.
djustment of ELAY POINT	Remote control unit		DELAY POINT (AGC TAKE-OVER)	1. Receive a black and white signal (colour off). 2. Select 1.IF from the SERVICE MENU. 3. Select 2.DELAY POINT by pressing the 2 key on the remonant of the control. 4. Adjust the FUNCTION - or + key until video noise disappears.
	ng item ment item)	Variable range	Initial setting value	5. Press the MENU key and memorize the set value. 6. Turn to other channels and make sure that there are
DELAY F	OINT KE-OVER)	0~63	30	irregularities.
djustment of	Remote control unit Oscilloscope		L, V LEVEL	Receive a color bar signal.     (SECAM-L,75% white)     Connect the oscilloscope to EXT-1 PIN 19.     Select 1.IF from the service Menu.

#### **VSM PRESET SETTING**

Item	Measuring instrument	Test point	Adjustment part	Description					
Setting of VSM PRESET ADJUST	Remote control unit		1. BRIGHT 2. CONT. 3. COLOUR 4. SHARP 5. HUE 6. R DRIVE 7. G DRIVE 8. B DRIVE 9. BASS 10. TREBLE	1. Select COOL with the MENU key of the remote control unit. 2. Select 5.VSM PRESET from the SERVICE MENU. 3. Adjust the FUNCTION UP/DOWN and -/+ key to bring the values of 1.BRIGHT ~ 10.TREBLE to the values shown in table. 4. Press the MENU key and memorize the set value. 5. Respectively select the VSM PRESET mode for REGULAR a WARM, and make similar adjustment as in 3 above. 6. Press the MENU key and memorize the set value. • Refer to OPERATING INSTRUCTIONS for the PICTU MODE.					
			VSM preset mode Setting item  1. BRIGHT SETTING VALUE 2. CONT. SETTING VALUE 3. COLOUR SETTING VALUE		COOL	REGULAR	WARM		
					+0	+0	+0		
					+13	+10	+2		
					+2	+0	-2		
	·		4. SHARP SETTING	VALUE	+0	+0	-2		
	And the Post of Section 1		5. HUE SETTING	VALUE	+0	+0	+0		
			6. R DRIVE SETTING	VALUE	-5	+0	+14		
			7. G DRIVE SETTING V	VALUE	+11	+0	+15		
			8. B DRIVE SETTING V	VALUE	+0	+0	-6		
			9 BASS SETTING	VALUE	+0	+0	0		
			10.TREBLE SETTING		+0	+0	0		
				SETTING V	ALUES OF V	SM PRESET			
			1						

#### VIDEO/CHROMA CIRCUIT ADJUSTMENT

The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.

The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

Setting Item (Adjustment Item )	Initial setting value
1.RGB BLK	
2.R.DRIVE	+12
3.G.DRIVE	+2
4.B.DRIVE	+0
5.R.LEVEL	+0
6.G.LEVEL	+0
7.B.LEVEL	+0
8.BRIGHT	-10
9.CONTRAST	-5

Colour system	Initial se	Initial setting value			
Setting item	PAL/ SECAM	NTSC 3.58 NTSC 4.43			
10.COLOUR	-4/0	0			
11.HUE		0			
12.PEAK DRIVE	+5				
13.GAMMA	-21				
14.VCOF	+0				
16.RELC	+0				
***					

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE	Signal generator Remote control unit		2.R DRIVE 3.G RIVE 6.R LEVEL 6.G LEVEL 7.B LEVEL	Set the PICTURE MODE to COOL.  Receive a black and white signal(colour off). Select 2. V/C from the SERVICE MENU. Modify 2. R DRIVE and 3.G DRIVE data to adjust the white balance ( high light )  Modify 5. R LEVEL, 6. G LEVEL and 7. B LEVEL data to adjust the white balance of low light. Components. Press the MENU key and memorize the set value.
Adjustment of SUB BRIGHT	control unit		8.BRIGHT	2. Select 2.V/C from the SERVICE MENU. 3. Select 8.BRIGHT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION -/+ key. 5. If the brightness is not the best with the initial setting value make fine adjustment until you get the best brightness. 6. Press the MENU key and memorize the set value.
Adjustment of SUB CONT.	Remote control unit		S.CONT.	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 9.CONT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION - or + key. 5. If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast. 6. Press the MENU key and memorize the set value.

ltem	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB	Remote control unit		10.COLOUR (PAL~NTSC)	[Method of adjustment without using measuring instrument]
COLOUR (			PAL COLOUR	(PAL COLOUR)  1. Receive PAL broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 10.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value for PAL COLOUR with the FUNCTION - or + key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 6. Press the MENU key and memorize the set value.
			SECAM COLOUR	(SECAM COLOUR)  1. Receive a SECAM broadcast. Make fine adjustment of SECAM COLOUR in the same manner as for above.
			SAME AND ADDRESS OF THE PARTY O	
			NTSC COLOUR	(NTSC 3.58 COLOUR)  1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal.  2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.
				(NTSC 4.43 COLOUR)  1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

ltem	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR II	Signal generator #	TP-47B TP-E( ) [CRT SOCKET	10.COLOUR (PAL~NTSC)	[Method of adjustment using measuring instrument]
	Oscilloscope Remote control unit	DWD 1	PAL COLOUR	(PAL COLOUR)  1. Receive a PAL full field colour bar signal(75% white).  2. Select 2.V/C from the SERVICE MENU.  3. Select 5.COLOUR with the FUNCTION UP/DOWN key.  4. Set the initial setting value of PAL COLOUR with the FUNCTION - or + key.  5. Connect the oscilloscope between TP-47B and TP-E  6. Adjust PAL COLOUR and bring the value of (A) in the illustration to 8V (voltage difference between white (w) and blue (B)).  7. Press the MENU key and memorize the setting value.
	Cy Mg B	0) (-)	SECAM COLOUR	(SECAM COLOUR)  1. Receive a SECAM full field colour bar signal(75% white).  2. Set the initial setting value of SECAM COLOUR with the FUNCTION -/+ key.  3. Adjust SECAM COLOUR and bring the value of (A) of the illustration to 6V.  4. Press the MENU key and memorize the setting value.
		(*)	NTSC COLOUR	(NTSC 3.58 COLOUR)  1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.  2. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION -/+ key.  3. Adjust NTSC 3.58 COLOUR and bring the value of (A) of the illustration to 2V(W~B).  4. Press the MENU key and memorize the setting value.  (NTSC 4.43 COLOUR)  1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

DEFLECTION	CIRCUIT	THEMTSULGA

There are 3 modes of the adjustment (1) 50Hz mode ( ①PANORAMIC ②FULL ③SUBTITLE ), (2) 60Hz mode ( each aspect mode) · · · · · · depending upon the kind of signals ( vertical frequency 50Hz / 60Hz ).

- When the 50Hz PANORAMIC mode has been established, the setting of other modes will be done automatically.
   However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The adjustment using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- Regular and Zoom switching is conducted not by the Deflection circuit, but by the 100 Hz PWB. Therefore, the deflection system cannot be adjusted in these modes.

#### [32 model]

		Initial setting value								
Setting item	Adjustment name	FL	JLL	PANO	RAMIC	SUBTITLE				
		50Hz	60Hz	50Hz	60Hz	60Hz	60H2			
1.V- SHIFT	Vertical center	3	0	0	0	0	0			
2.V- SLOPE	Vertical def. Start position	14	-7	2	-9	0	2			
3.V-SIZE	Vertical height	33	2	-1	-1	20	-1			
4.H-CENT	Horizontal center	23	-3	0	-1	0	-2			
5.H-SIZE	Horizontal width	23	-1	8	-1	-1	0			
6.EW-PIN	Side pin correction	42	0	-3	0	3	0			
7.EW-COR	Side pin four corner correction	36	0	-10	-8	-7	0			
8.TRAPEZ	Trapezoidal distortion correction	3	0	-1	-1	0	1			
9.V-S.CR	Vertical height correction	8	٥	12	0	5	0			
10.EHT-COMP	Size Regulation	30	0	0	0	0	0			
11.CLAMP	CLAMP Position	0	0	0	0	0	0			

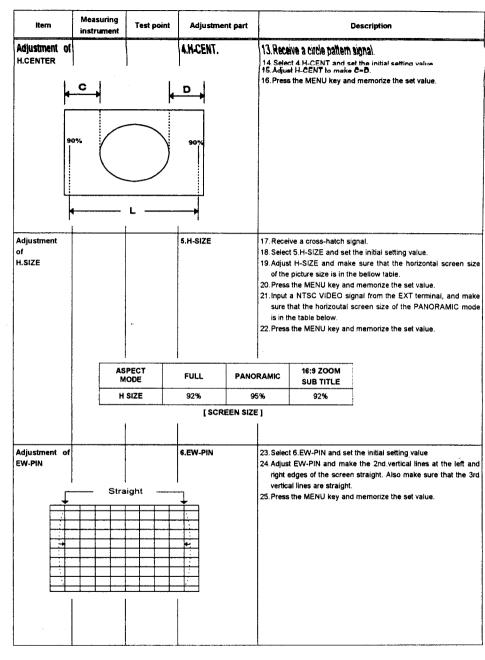
#### [28 model]

		Initial setting value								
Setting item	Adjustment name	FL	ILL	PANO	RAMIC	SUBTITLE				
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz			
1.V- SHIFT	Vertical center	3	0	0	0	3	. 0			
2.V- SLOPE	Vertical def. Start position	14	-7	2	-9	0	2			
3.V-SIZE	Vertical height	35	2	3	0	14	5			
4.H-CENT	Horizontal center	25	-3	0	-3	0	-3			
5.H-SIZE	Horizontal width	29	-1	7	-1	0	-1			
6.EW-PIN	Side pin correction	30	-1	4	3	9	2			
7.EW-COR	Side pin four corner correction	10	-3	18	6	10	3			
8.TRAPEZ	Trapezoidal distortion correction	3	1	0	0	0	0			
9.V-S.CR	Vertical height correction	8	0	12	0	5	0			
10.EHT-COMP	Size Regulation	25	0	0	0	0	٥			
11.CLAMP	CLAMP Position	0	0	0	0	0	0			

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of	Remote control unit		11.HUE	[Method of adjustment without using measuring instrument]
SUB TINT I			NTSC 3.58 TINT	[NTSC 3.58 TINT ]  1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full fle colour bar with 75% white) from the EXT terminal.  2. Select 2.V/C from the SERVICE MENU.  3. Select 11.HUE with the FUNCTION UP/DOWN key.  4. Set the initial setting value of NTSC 3.58 TINT with the FUNCTION -/+ key.  5. If you cannot get the best tint with the initial setting value make fine adjustment until you get the best tint.  6. Press the MENU key and memorize the set value.
			NTSC 4.43 TINT	[NTSC 4.43 TINT]  1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set a the respective values.
Adjustment of	Signal generator	TP-47B TP-E	11.HUE	[Method of adjustment using measuring instrument]
SUB TINT II	Oscilloscope Remote control unit	ICRT SOCKET PWB]	NTSC 3.58 TINT	[NTSC 3.58 TINT]  1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal.  2. Select 2.V/C from the SERVICE MENU.  3. Select 11.HUE with the FUNCTION UP/DOWN key.  4. Set the initial setting value of NTSC 3.58 TINT with the FUNCTION - or + key.  5. Connect the oscilloscope between TP-47B and TP-E  6. Adjust NTSC 3.58 TINT to bring the value of (A) in the illustration to 0V (voltage difference between white (W) and magenta(Mg)).  7. Press the MENU key and memorize the setting value
(A) (-) (A) (-) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A		(-) A O (*)	NTSC 4.43 TINT	[NTSC 4.43 TINT]  1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set a the respective values.

23

ltem	Measuring instrument	Test point	Adjustr	ent part	ent part Description		
Adjustment of V-SHIFT and V-SLOPE	Signal generator Remote		1.V. SHIFT  A  B  T		1. Re 2. Se 3. Se 4. Ad 5. IF 6. P	lect 4.DEF from the lect 1.V-SHIFT with just V-SHIFT to main it is not enough to a choose "2.V-SLOF ress the MENU key	adjust the "V=SHIFT",  "E" and adjust to make A = B.  I and memorize the set value.
Screen size	Scree	n size		Picture size 100%	9. Ad pic 10.Pre 11.Inp sui	just V-SIZE and ma sture size is in the b ess the MENU key out a NTSC VIDEO re that the vertical s a table below.	set the initial setting value. ake sure that the vertical screen size of the ellow table. and memorize the set value. I signal from the EXT terminal, and make screen size of the RANORAMIC mode is in and memorize the set value.
	MOD	DE I	FULL	PANORA	міс	16:9 ZOOM SUB TITLE	
	SCRE		92%	87%		70%	
	SCRE BOTT		92%	87%		83%	
			[ SCRI	EEN SIZE ]			



item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of EW-COR			7.EW-COR	No alignment, but adjust this mode if result of no alignment it too bad.  Select 7 EW-COR and set the initial setting value.  Adjust EW-COR and make the vertical lines at the four corner of the screen straight.  Repress the MENU key and memorize the set value.
Adjustment of TRAPEZ		Para	B.TRAPEZ	[50Hz PANORAMIC mode] 29. Receive a cross-hatch signal of vertical frequency 50Hz. 30. Select 4.DEF from the SERVICE MENU. 31. Select 8. TRAPEZ with the FUNCTION UP/DOWN key. 32. Set the initial setting value of TRAPEZ with the FUNCTION - o + key. 33. Adjust TRAPEZ and bring the VERTICAL lines at the right and left edges of the screen parallel . 34. Press the MENU key and memorize the set value.
Adjustment of V-S.CR			9.V-S.CR	No alignment, but adjust this mode if result of no alignment is too bad.  35 Select 9.V-S.CR and set the initial setting value.  36.Adjust each item to get exact square of cross-hatch pattern.  37.Press the MENU key and memorize the set value.  At first the adjustment in 50Hz-PANORAMIC mode should be done, then the data for the other zoom mode is corrected in the respective value at the same time. And confirm the deflection
				adjustment initial setting value in 60Hz( NTSC EXT mode PANORAMIC mode. If the adjustment in 50Hz each zoor mode has been done and stored, the data for the same aspec modes in 60Hz is corrected in the respective value. Only the data for the other aspect mode in 60Hz is corrected for itself.

#### AUDIO CIRCUIT ADJUSTMENT

#### 3. AUDIO / OSD

Setting item	Variable range	fixed value
1. CONC LIMIT (Do not adjust)	00H∼FFH	DAH
2. A2 ID THR <i>(Do not adjust)</i>	00H∼FFH	19H

#### OSD horizontal position

ltem	Test point	Adjustment part		Description
JVC LOGO H		3.JVC LOGO H	1.	Select 3.AUDIO / OSD from SERVICE MENU.
			2.	Select 3.JVC LOGO H with the FUNCTION -/+ key.
			3.	Confirm that JVC LOGO H=00H
			4.	Press the MENU Key, and memorize the set values.
TEXT MONO H		4.TEXT MONO H	1.	Select 3.AUDIO / OSD from SERVICE MENU.
	1		2.	Select 4.TEXT MONO H with the FUNCTION -/+ key.
00	100 00:0	0:00	3.	Push text key to get a picture of "TEXT-MONO H".
01			4.	Push "SUBPAGE" key. It gets a picture as shown left.
•			5.	Adjust the value of the distance "d" as shown left with the
. 00	INDEX			FUNCTION UP/DOWN key.
18				Push "SUBPAGE" key to check adjustment every adjust.
			6.	Press the MENU Key, and memorize the set values.
19				
			-	e e
d				
MOE	DEL	d		
ALL MO	DDELS 5	~20mm		
	1			

27

28

# **PARTS LIST**

### CAUTION

- The parts identified by the A symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.
- As a rule, the resistors and capacitors which are indicated as shown in "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board.

When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS".

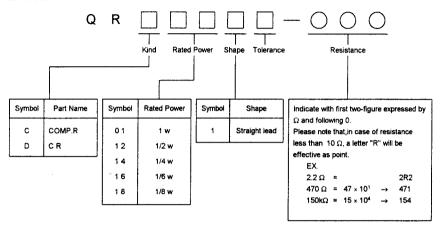
#### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

	RESISTORS		CAPACITORS
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	HV CAP.	High Voltage Capacitor
HVR	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MFR	Metal Film Resistor	ММ САР.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	МР САР.	Metalized Polystyrol Capacitor
MPR "	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CHVR	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CHIC CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

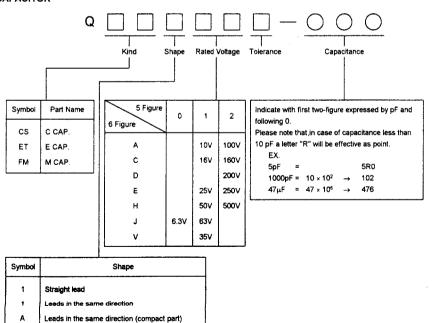
TOLERANCES									
F	G	J	к	М	N	R	н	Z	Р
± 1%	± 2%	± 5%	± 10%	± 20%	± 30%	+ 30% - 10%	+ 50% - 10%	+ 80% - 20%	+ 100% - 0%

#### HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

#### ■ RESISTOR



#### **■ CAPACITOR**



# CONTENTS

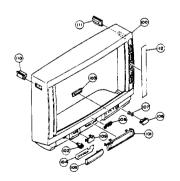
THIS DAY DOADD & DEMOTE CONTROL UNIT	
■ USING P.W. BOARD & REMOTE CONTROL UNIT	
■ EXPLODED VIEW PARTS LIST [AV-28WZ2EN(A)/AV-28WZ2EP(A)]······32	
■ EXPLODED VIEW PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]······33	
■ EXPLODED VIEW34	
■ PRINTED WIRING BOARD PARTS LIST [AV-28WZ2EN(A)/AV-28WZ2EP(A)]	
• MAIN PW BOARD ASS'Y (SMB-1002B-U2)	
SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)	
• IF PW BOARD ASS'Y (SMB0F7018-U2)	
• 100Hz PW BOARD ASS'Y (SMB0Z002B-U2)···················40	
POWER DEF PW BOARD ASS'Y (SMB-2002B-U2)	
• CRT SOCKET PW BOARD ASS'Y (SMB-3002B-U2)	
• AUDIO PW BOARD ASS'Y (SMB-6001B-U2)····································	
FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2) 47	
DOLBY PW BOARD ASS'Y(\$MB0D002B-U2)	
AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2)	
AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  • MAIN PW BOARD ASS'Y (SMB-1003B-U2)	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  • MAIN PW BOARD ASS'Y (SMB-1003B-U2)	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  • MAIN PW BOARD ASS'Y (SMB-1003B-U2)	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2)  ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)  ■ IF PW BOARD ASS'Y (SMB0F701B-U2)  ■ 100Hz PW BOARD ASS'Y (SMB0Z002B-U2)  56	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  • MAIN PW BOARD ASS'Y (SMB-1003B-U2) 51  • SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) 54  • IF PW BOARD ASS'Y (SMBDF701B-U2) 55  • 100Hz PW BOARD ASS'Y (SMB02002B-U2) 56  • POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) 59	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  • MAIN PW BOARD ASS'Y (SMB-1003B-U2) 51  • SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) 54  • IF PW BOARD ASS'Y (SMB0Z002B-U2) 55  • 100Hz PW BOARD ASS'Y (SMB0Z002B-U2) 56  • POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) 59  • CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2) 62	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2)  ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)  ■ IF PW BOARD ASS'Y (SMB0F701B-U2)  ■ 100Hz PW BOARD ASS'Y (SMB02002B-U2)  ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2)  ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)  ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ 63	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2)  ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)  ■ IF PW BOARD ASS'Y (SMB0F701B-U2)  ■ 100Hz PW BOARD ASS'Y (SMB0Z002B-U2)  ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2)  ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)  ■ 63	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2)  ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)  ■ IF PW BOARD ASS'Y (SMB0F701B-U2)  ■ 100Hz PW BOARD ASS'Y (SMB0Z002B-U2)  ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2)  ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-8001B-U2)  ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)  ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB-6002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB-6002B-U2)  ■ 64	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2)  ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)  ■ IF PW BOARD ASS'Y (SMB0F701B-U2)  ■ 100Hz PW BOARD ASS'Y (SMB0Z002B-U2)  ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2)  ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB-8002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB0D002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB0D002B-U2)  ■ AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2)  ■ 66	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2)  ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)  ■ IF PW BOARD ASS'Y (SMB0F701B-U2)  ■ 100Hz PW BOARD ASS'Y (SMB0Z002B-U2)  ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2)  ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-8001B-U2)  ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)  ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB-6002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB-6002B-U2)  ■ 64	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2)  ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)  ■ IF PW BOARD ASS'Y (SMB02F01B-U2)  ■ 100Hz PW BOARD ASS'Y (SMB02002B-U2)  ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2)  ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB0D002B-U2)  ■ AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2)  ■ AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))  ■ 66	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2)  ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)  ■ IF PW BOARD ASS'Y (SMBDF701B-U2)  ■ 100Hz PW BOARD ASS'Y (SMBD2002B-U2)  ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2)  ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB-8002B-U2)  ■ AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2)  ■ AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))  ■ REMOTE CONTROL UNIT PARTS LIST  ■ 66	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2)  ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)  ■ IF PW BOARD ASS'Y (SMBDF701B-U2)  ■ 100Hz PW BOARD ASS'Y (SMB0Z002B-U2)  ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2)  ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-8002B-U2)  ■ TRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB0D002B-U2)  ■ AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2)  ■ AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))  ■ REMOTE CONTROL UNIT PARTS LIST  ■ 66  ■ PACKING	
■ PRINTED WIRING BOARD PARTS LIST [AV-32WZ2EN(A)/AV-32WZ2EP(A)]  ■ MAIN PW BOARD ASS'Y (SMB-1003B-U2)  ■ SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)  ■ IF PW BOARD ASS'Y (SMBDF701B-U2)  ■ 100Hz PW BOARD ASS'Y (SMBD2002B-U2)  ■ POWER DEF PW BOARD ASS'Y (SMB-2003B-U2)  ■ CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ AUDIO PW BOARD ASS'Y (SMB-6001B-U2)  ■ FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)  ■ DOLBY PW BOARD ASS'Y (SMB-8002B-U2)  ■ AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2)  ■ AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))  ■ REMOTE CONTROL UNIT PARTS LIST  ■ 66	

#### USING P.W. BOARD & REMOTE CONTROL UNIT

	Model	AV-28WZ2EN(A)	AV-32WZ2EN(A)
P.W.B ASS'Y		AV-28WZ2EP(A)	AV-32WZ2EP(A)
MAIN P.W.B		SMB-1002B-U2	SMB-1003B-U2
POWER DEF P.W.B		SMB-2002B-U2	SMB-2003B-U2
CRT SOCKET P.W.B		SMB-3002B-U2	SMB-3001B-U2
AUDIO P.W.B		SMB-6001B-U2	<del>-</del>
FRONT CONTROL UNIT		SMB-80028-U2	<b>4</b>
SUB TEXT P.W.B		SMB-1111B-U2	<b>4</b>
DOLBY P.W.B		SMB0D002B-U2	+
100Hz P.W.B		SMB0Z002B-U2	4
AV TERMINAL P.W.B		SMB0J001B-U2	<b>4</b>
IF P.W.B		SMB0F701B-U2	<b>—</b>
AUTO ASPECT MODULE P.W.B		SJF0W001A(U)	4
REMOTE CONTROL UNIT		RM-C793-1E	4

LXI LUL	ED VIEW PAR	•		
⚠ Ref. No.	Part No.	Part Name	Description	Local
<b>∆ V</b> 01	W66ESF002X44	ITC TUBE (C)		
<b>∆</b> L01	CELD061-001J2	DEGAUSSING COIL		*
<b>∆</b> 72551	CETH020-00AJ1	HVT (SERVICE)	*	*
1	CHGB0029-0B	BRAIDED ASSY		
2	CHGB0017-08	BRAIDED SUB ASSY	× 2	
3	CM36311-001	KNOB CAP		_
4	CM12925-003-E	CONTROL BASE		
5	CM12925-004-E	CONTROL BASE		•
6	CM12923-A01-E	CHASSIS BASE		*
7	CM12924-C02-E	AV TERMINAL BASE		*
8	SB\$B3012M	TAPPING SCREW	× 7	*
11	CHFB125-06BD	FFC WIRE		*
12	CHGY0017-0A-YS	ANTENNA CABLE		*
△ 13	CE41950-001J1	ANODE CABLE ASSY		*
₾ 14	AEEMP001-185	POWER CORD		*
∆ 15	CM46618-A01-E	POWER CORD CLAMP		*
16	CHGS0075-AB	S. P WIRE ASSY		*
17	CE42112-002	PALJ CONNECTOR		
18	CEBSF10P-05KJ6	SPEAKER	× 2 SP01/02	*
21	2528MXSP-SZE-E	DOME SPEAKER	× 2	*
22	CM12921-001-E	DOME ADAPTER	× 2	*
23	CM12922-001-E	DOME BOX	× 2	*
△ 24	CM12582-A04-E	REAR COVER		*
25	GBSA4016N	TAPPING SCREW	× 13	*
<b>∆</b> 26	LC20093-003A-U	RATING LABEL	AV-28WZ2EN(A)ONLY	*
₾ 27	LC20092-003A-U	RATING LABEL	AV-28WZ2EN(A)	*
∆ 27	LC20094-003A-U	RATING LABEL	AV-28WZ2EP(A)	*
28	QQR0778-001	CORE FILTER		
29	QQR0490-001	NOISE FILTER	× 2	
30	CE41355-00B	CORE ASSY	×4	
31	QQR0804-001	CORE FILTER		
100	CM12833-A08-E	FRONT CABINET AS	Include NO. 101~112	*
101	CM12966-001-E	CENTER PANEL		*
102	CM48229-00A	DOOR LATCH		*
103	CM36223-002-H	L. E. D. LENS		*
104	CM36587-002	OPERATION SHEET		*
105	CM23132-001	DOOR		*
106	CM36225-010	POWER KNOB	SERVICE	*
107	CM35235-003-H	SPRING		*
108	CM48125-001	JVC MARK		*
109	CM48076-002-H	C. D. S. WINDOW		*
110	CM35865-00U	INSULATER ASSY	SERVICE	*
111	CM35865-00V	INSULATOR ASSY R	SERVICE	*
112	CM36171-00A-H	SPEAKER NET	× 2	*

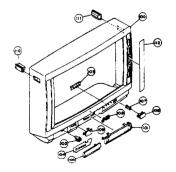
# **EXPLODED VIEW LIST**



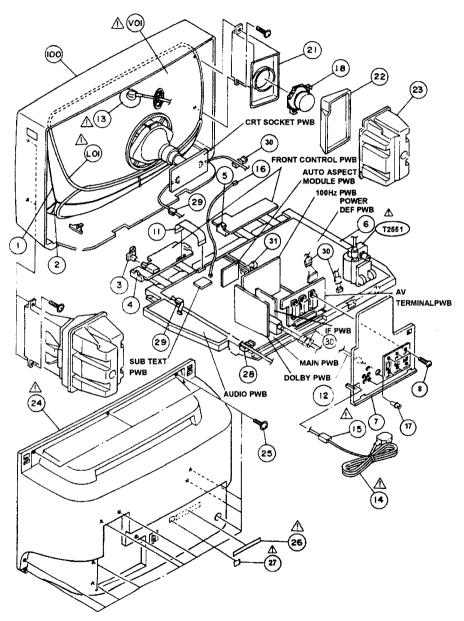
# **EXPLODED VIEW LIST**

<b>EXPLOD</b>	ED VIEW LIST	•	ด้งอริงกระโรกลังการรา	(1) E (1)
△ Ref. No.	Part No.	Part Name	Description	Local
<b>△ V</b> 01	W76ESF031X44	ITC TUBE (C)		*
∆ L01	CELD062-001J2	DEGAUSSING COIL		1
L03	CELD904-001	ROTATION COIL		
A 72551	CETHO21-COAJI	HYT (SERVICE)		*
1	CHGB0029-0C	BRAIDED ASSY		*
2	CHG80017-08	BRAIDED SUB ASSY	× 2	*
3	CM36311-001	KNOB CAP		
4	CM12925-001-E	CONTROL BASE		*
5	CM12925-002-E	CONTROL BASE		*
6	CM12923-A01-E	CHASSIS BASE		*
7	CM12924-CO2-E	AV TERMINAL BASE		*
8	SBSB3012M	TAPPING SCREW	×7	*
9	CM23076-B01-E	TRANSF, HOLDER	_	*
10	GBSA4016N	TAPPING SCREW	× 3	*
11	CHFB125-12BD	FFC WIRE		*
12	CHGY0017-0A-YS	ANTENNA CABLE		*
<b>△</b> 13	CE41950-001J1	ANODE CABLE ASSY		*
<b>△</b> 14	AEEMP001-185	POWER CORD		*
△ 15	CM46618-A01-E	POWER CORD CLAMP		*
16	CHGS0075-AA	S. P WIRE ASSY		*
17	CE42112-002	PALJ CONNECTOR		
18	CEBSF10P-05KJ6	SPEAKER	× 2 SP01/02	*
21	2528MXSP-SZE-E	DOME SPEAKER	× 2	*
22	CM12921-001-E	DOME ADAPTER	× 2	*
23	CM12922-001-E	DOME 80X	× 2	*
<b>∆</b> 24	CM12737-003-E	REAR COVER		*
25	GBSA4016N	TAPPING SCREW	× 13	*
△ 26	LC20093-002A-U	RATING LABEL	AV-32WZ2EN(A) ONLY	*
<b>△</b> 27	LC20092-002A-U	RATING LABEL	AV-32WZ2EN (A)	*
△ 27	LC20094-002A-U	RATING LABEL	AV-32WZ2EP(A)	*
28	QQR0778-001	CORE FILTER	_	
29	QQR0490-001	NOISE FILTER	× 2	
30	CE41355-00B	CORE ASSY	× 5	
31	QQR0804-001	CORE FILTER		
100	CM12587-A0Q-E	FRONT CABINET AS	include NO. 101∼112	*
101	CM12966-001-E	CENTER PANEL		*
102	CM48229-00A	DOOR LATCH		*
103	CM36223-002-H	L. E. D. LENS		*
104	CM36857-001	OPERATION SHEET		*
105	CM23131-A01	DOOR		*
106	CM36225-010	POWER KNOB	SERVICE	*
107	CM35235-003-H	SPRING		*
108	CM48125-001	JVC MARK		*
109	CM48076-002-H	C. D. S. WINDOW		*
110	CM35865-00U	INSULATER ASSY	SERVICE	*
111	CM35865-00V	INSULATOR ASSY	SERVICE	*
112	CM36172-00A-S	SPEAKER NET	× 2	*

# **EXPLODED VIEW**



## **EXPLODED VIEW**



# PRINTED WIRING BOARD PARTS LIST AN 28W72ENIAVAY 28W72ENIAVAY

	Part No.		Description			Loc
RESIST					_	
R1001	QRD12CJ-474SX	C R	470k Ω	1/2W	J <sub>.</sub>	
R1206	QRG019J-101S	OM R	100 Ω	1 W	J	
R1229	QRD123J-181SX	CR	180 Ω	1/2W	J	
R1231	QRG019J-101S	OM R	100 Ω	1 W	J	
R1748	QRB069J-103	NET. R				
CAPACI				* * * * * * * * * * * * * * * * * * * *		
C1001	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1002	QETC1HM-107Z	E CAP.	100 μ F	50V	M	
C1003	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
C1004	QETN1CM-107Z	E CAP.	100 µ F	16V	K	
C1005	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
C1006	QETN1CM-227Z	E CAP.	220 μ F	16V	M	
C1008	QETN1HM-106Z	E CAP.	10 µ F	507	M	
C1011	QETN1CH-476Z	E CAP.	47 μ F	16V	M	
C1012	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1201	GETN1CM-227Z	E CAP.	220 μ F	167	M	
C1203-04	GETNIHM-105Z	E CAP.		50V	W	
			1 µ F	50V	w w	
C1205-06	QETN1HM-335Z	E CAP.	3.3 µ F			
C1207	GETN1CH-227Z	E CAP.	220 μ F	16V	M	
C1209	QETN1CM-476Z	E CAP.	47 µ F	16V	М	
C1210	QETN1CM-477Z	E CAP.	470 µ F	16V	M	
C1212-13	QETN1HM-105Z	E CAP.	1 µ F	50V	M	
C1214-15	QETN1HM-335Z	E CAP.	3.3 µ F	50V	M	
C1216-17	QETN1HM-105Z	E CAP.	1 μ F	50V	M	
C1218-19	QETN1CM-476Z	E CAP.	47 <u>µ</u> F	16V	M	
C1220	QETN1HM-105Z	E CAP.	1 μ F	50V	M	
C1221-22	QETN1CM-107Z	E CAP.	100 μ F	16V	M	
C1223-24	GETN1HM-105Z	E CAP.	1 μ F	50V	M	
C1231-32	QETN1CM-476Z	E CAP.	47 µ F	16V	Ñ	
01301	QETN1CM-4762 QETN1CM-227Z	E CAP.	220 μ F	16V	M	
C1302	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1304	GETN1CM-476Z	E CAP.	47 μ F	16V	Ñ	
		E CAP.		507	ũ	
C1305	QETN1HM-226Z		22 µ F	50V		
C1306	QFLC1HJ-223MZ	M CAP.	0. 022 µ F		J	
C1307-08	QETN1HM-105Z	E CAP.	1μΕ	50V	M	
C1311-13	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1315 C1316	QFV71HJ-474MZ QCZ0120-104MZ	TF CAP. C CAP.	0, 47 μ F 0, 1 μ F	50V 25V	J Z	
			·			
C1317	QFV71HJ-154MZ	TF_CAP.	0.15 μ F	50V	ĭ	
C1318	QCZ0120-104MZ	C CAP.	0.1μF	25 <b>V</b>	Z	
C1320	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1321-22	QCT25CH-120Z	C CAP.	12 p F	50V	J	
C1323	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
C1325-26	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1327	QETN1CM-227Z	E CAP.	220 µ F	16V	M	
C1328-32	QCZ0120-104MZ	C CAP.	0.1μF	25V	Ž	
C1335	QFLC1HJ-103MZ	M CAP.	0.01 μ F	50V	J	
C1341	QEN61HM-1052	BP E CAP.	1 μ F	50V	М	
C1348	QCZ0120-104MZ	C CAP.	0.1μF	25V	ž	
	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Ž	
C1350-52	QFV71HJ-224MZ	TF CAP.	0. 1μ F 0. 22 μ F	50V	Ĵ	
C1353-55				50V	M	
01357	QETN1HM-105Z	E CAP.	1 µ F			
C1358	QETN1HM-475Z	E CAP.	4. 7 μ F	50V	M	
C1359	QETN1HM-105Z	E CAP.	1μF	50V	M	
C1360	QETN1HM-335Z	E CAP.	3.3 µ F	50V	M	
C1363	QETN1CM-107Z	E CAP.	100 μ F	16V	M	
C1365	QEZ0106-228R	E CAP.	2200 µ H	107	M	
C1375	QETN1CM-107Z	E CAP.	100 μ F	16V	M	
C1610-11	QCT25CH-2ROZ	C CAP.	2pF	50V	J	
C1612	QETN1CH-476Z	E CAP.	47 µ F	167	M	
C1615	GETNIHM-106Z	E GAP.	10 µ F	50V	Ä	
C1616	QCZ0120-104MZ	C CAP.	0.1μF	25V	ž	
	QETN1HM-105Z	E CAP.	1 <i>µ</i> F	50V	¥	

36

-104MZ C C -105Z E -105Z E -105Z E -105Z E -106Z C E -106Z C C -107Z C C -107Z C C -104MZ C C -107Z C C -107Z C C -107Z C C -104MZ C C -105Z C C C -105Z C C C C C C C C C C C C C C C C C C C	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.200 0.200	1100 H F F F F F F F F F F F F F F F F F F	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V	MZM MMAZM MZMMJZMJ ZJZMZJZM MZMJJZZZM	
-104MZ C C -105Z E -105Z E -105Z E -105Z E -106Z C E -106Z C C -107Z C C -107Z C C -104MZ C C -107Z C C -107Z C C -107Z C C -104MZ C C -105Z C C C -105Z C C C C C C C C C C C C C C C C C C C	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.200 0.200	1001-1010	25V 50V 50V 25V 50V 25V 50V 25V 50V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	ZMMMMZM MZMMJZMJ ZJZMZJZM MZMJJZZZ	
-106Z E -105Z E -105Z E -105Z E -105Z E -104WZ C -104WZ C -104WZ C C -105Z E -104WZ C C -104WZ C C -105Z C C C C C C C C C C C C C C C C C C C	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.200 0.200	10 1 1 10 1 1 10 1 1 1 1 1 1 1 1 1 1 1	50V 50V 50V 25V 50V 50V 25V 50V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	M M M M M Z M M J Z M J Z J Z M Z J Z M M Z M J J Z Z Z	
-105Z E -105Z E -105Z E -105Z E -105Z E -105Z E -106Z E -106Z E -106Z C E -106Z C E -106Z C E -105Z C E -105Z C E -105Z C E -104MZ C C -107Z E -333MZ M C -104MZ C -107Z E -333MZ M C E -104MZ C E -105Z E -104MZ C E -104MZ C E -105Z E -104MZ C E	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.20 0.20	11/4 FF	50V 50V 25V 50V 25V 50V 25V 25V 25V 25V 50V 25V 25V 50V 25V 25V 50V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	動材軸で解 紙工制材JZMJ とJZMZJZM MZMJJZZ	
-105Z E 1-106Z E 1-106Z E 1-106Z E 1-104MZ C 1-104MZ C 1-104MZ C 1-104MZ C 1-106Z E 1-104MZ C 1-	GAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP.		0. 03 0. 03 0. 03 0. 03 0. 03 0. 04 0. 04 0. 05 0. 2	1010 10 10 10 10 10 10 10 10 10 10 10 10	50V 50V 50V 50V 50V 50V 50V 50V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	MMZM MZMMJZMJ ZJZMZJZM MZMJJZZ	
-106Z E -104MZ E -104MZ E -104MZ E -106Z E -104MZ C -104MZ C -104MZ C -333MZ M M -3476Z E -104MZ C E -104M	GAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP.		0. 03 0. 03 0. 03 0. 03 0. 03 0. 04 0. 04 0. 05 0. 2	1010 10 10 10 10 10 10 10 10 10 10 10 10	50V 25V 50V 50V 50V 50V 25V 50V 25V 25V 25V 50V 25V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 50V 50V 50V 50V 50V 50V 50V 50V 5	桶乙材 MIMMJZMJ アンスMEJZM MZMJJZZ	
-104MZ C E -106Z E -106Z C E -106MZ C C -104MZ C C -106Z E -333MZ M C -104MZ C C -107Z C C -104MZ C C -104MZ C C -104MZ C C -104MZ C C -474Z E -476Z E -104MZ C C -105Z E -104MZ C C -105Z E -104MZ C C C -104MZ C C C -104MZ C C -104	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 03 0. 03 0. 03 0. 03 0. 03 0. 04 0. 04 0. 05 0. 2	10	55V 50V 25V 50V 50V 25V 10V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	ZM MZMMJZMJ ZJZMZJZM MZMJJZZ	
-104MZ C E -106Z E -106Z C E -106MZ C C -104MZ C C -106Z E -333MZ M C -104MZ C C -107Z C C -104MZ C C -104MZ C C -104MZ C C -104MZ C C -474Z E -476Z E -104MZ C C -105Z E -104MZ C C -105Z E -104MZ C C C -104MZ C C C -104MZ C C -104	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 03 0. 03 0. 03 0. 03 0. 03 0. 04 0. 04 0. 05 0. 2	10	55V 50V 25V 50V 50V 25V 10V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	ZM MZMMJZMJ ZJZMZJZM MZMJJZZ	
-106Z E -106Z E -106WZ E -106WZ E -106G E -106C E -106Z E -104WZ C -107Z E -333WZ M -104WZ C -333WZ M -104WZ C -333WZ M -104WZ C -333WZ M -104WZ C -476Z E -104WZ C	GAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP.		0.030 0.030 0.030 0.030 0.030 0.04 0.050 0.22	10	50V 50V 50V 50V 50V 10V 50V 25V 50V 25V 25V 50V 25V 50V 25V 50V 25V 50V 25V 25V 50V 25V 25V 25V 25V 25V 25V 25V 25	M M Z M M J Z J Z M Z J Z M M Z M J J Z Z	
-104MZ C E -106Z E E -106Z E E -104MZ C C -104MZ C C -104MZ C C -333MZ M C C -333MZ M C C -333MZ M C C -333MZ M C C -104MZ C E -104MZ C C -104MZ C C -105MZ M C C -563MZ M C C -563MZ M C C -104MZ C C C C C C C C C C C C C C C C C C C	GAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP.		0. 03 0. 03 0. 03 0. 03 0. 05 0. 05 0. 05 0. 05 0. 23	1 #FF 10 #FF 13 #FF 13 #FF 13 #FF 147 #FF 147 #FF 16 #FF 16 #FF 16 #FF 16 #FF 17 #FF 16 #FF 17 #FF 18 #FF 1	25V 50V 50V 25V 10V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	ZMMJ2MJ ZJ2MZJ2M MZMJJ2Z	
-104MZ C E -106Z E E -106Z E E -104MZ C C -104MZ C C -104MZ C C -333MZ M C C -333MZ M C C -333MZ M C C -333MZ M C C -104MZ C E -104MZ C C -104MZ C C -105MZ M C C -563MZ M C C -563MZ M C C -104MZ C C C C C C C C C C C C C C C C C C C	GAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP.		0. 03 0. 03 0. 03 0. 03 0. 05 0. 05 0. 05 0. 05 0. 23	1 #FF 10 #FF 13 #FF 13 #FF 13 #FF 147 #FF 147 #FF 16 #FF 16 #FF 16 #FF 16 #FF 17 #FF 16 #FF 17 #FF 18 #FF 1	25V 50V 50V 25V 10V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	MMJ2MJ ZJ2MZJZM M2MJJZZ	
-106Z E -106Z E -106Z M E -106Z M E -106Z M E -107Z M E -107Z E -3R0Z C C -104MZ C E -104MZ C E -104MZ C E -476Z E -474Z E -474Z E -476Z E -104MZ C E -105Z E -104MZ C E -105Z E -104MZ C E -106MZ C E	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 03 0. 03 0. 03 0. 03 0. 05 0. 4	10 #FF   13   14   15   16   17   17   18   18   18   18   18   18	50V 50V 50V 25V 10V 50V 25V 25V 25V 25V 50V 25V 50V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	MMJ2MJ ZJ2MZJZM M2MJJZZ	
-106Z	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 03 0. 03 0. 03 0. 03 0. 05 0. 05 0. 05 0. 22	10 µF 13 µF 13 µF 10 µF 13 µF 17 µF 17 µF 17 µF 16 µF 16 µF 11 µF 11 µF 12 µF 11 µF	50V 50V 25V 10V 50V 25V 25V 25V 50V 25V 50V 25V 50V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	MJZMJ ZJZMZJZM MZMJJZZ	
-333MZ M -104MZ C -1017Z E -333MZ M M -333MZ M M -333MZ M M -104MZ C E -104MZ C E -104MZ C E -104MZ C E -105MZ M M C -474Z E -476Z E -105MZ M M C -105MZ M M C -104MZ C E -104MZ C E -104MZ C -104MZ C E -104MZ C	GAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP.		0. 03 0. 16 0. 03 0. 03 0. 05 0. 4 0. 05 0. 2	13 µFF 10 µFF 13 1 µFF 13 1 µFF 13 1 µFF 14 1 µFF 16 µFF 16 µFF 17 1 µFF 18 1	25V 25V 50V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	J Z M J Z J Z M M Z M J J Z Z	
-104MZ C -107Z E -107Z C -107Z C C -104MZ C -333MZ M -104MZ C -476Z E -104MZ C -476Z E -104MZ C -474Z E -476Z E -104MZ C -474Z E -105Z E -105Z E -105GZ MZ -104MZ C -104MZ C -104MZ C -104MZ C -104MZ C -104MZ C	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 16 0. 03 0. 03 0. 05 0. 4 0. 05 0. 2 0. 2 0. 2	1 µF 10 µF 13 µF 13 µF 147 µF 147 µF 147 µF 147 µF 148 µF 148 µF 149	25V 10V 50V 25V 25V 25V 25V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 50V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	ZMJ ZJZMZJZM MZMJJZZ	
-107Z E -3R0Z C C -3R0Z C C -104MZ333MZ M -476Z E -104MZ C -104MZ C -104MZ C -104MZ C -476Z E -104MZ E -105MZ M -476Z E -105MZ E -105MZ M -476Z E -105MZ C -476Z E -105MZ C -104MZ C -105Z E -104MZ C -104MZ C	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	00 µF 3 pF 13 µF 13 µF 147 µF 147 µF 147 µF 16 µF 16 µF 147 µF	10V 50V 25V 25V 25V 25V 50V 25V 50V 50V 50V 50V 25V 25V 25V 25V 25V 25V 25V 25V 25V 25	M J Z J Z M Z J Z M M Z M J J Z Z	
-3ROZ C -104MZ C -333MZ M -104MZ C -333MZ M -476Z E -104MZ C -333MZ M -104MZ C -474Z E -104MZ C -474Z E -104MZ C -105Z E -104MZ T -104MZ T -104MZ T -104MZ C -105Z E -104MZ T -104MZ T -104MZ C	CAP.  CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 03 0. 03 0. 03 0. 4 0. 05 0. 4 0. 05 0. 2	3 pF 13 µF 17 µF 17 µF 17 µF 17 µF 17 µF 16 µF 16 µF 17 µF	25V 50V 25V 25V 25V 50V 25V 50V 16V 25V 50V 50V 25V 50V	J Z Z M Z J Z M Z J Z M Z J Z M Z J Z M Z J Z Z M Z J Z Z M J Z J Z	
-104MZ C C -333MZ M -476Z E -104MZ C C -333MZ M C C C C C C C C C C C C C C C C C C	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 03 0. 03 0. 03 0. 4 0. 05 0. 2 0. 2	1 µF 13 µF 17 µF 17 µF 13 µF 17 µF 17 µF 17 µF 16 µF 12 µF 1 µF	25V 50V 25V 25V 25V 50V 25V 50V 50V 50V 25V 50V 25V	Z J Z M Z J Z M M Z M J J Z Z	
-333MZ M -104MZ C -476Z E -104MZ C -333MZ M -104MZ C -474Z E -476Z E -476Z E -104MZ C -105Z E -105Z M -224MZ TF -104MZ C -104MZ C	CAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 03 0. 03 0. 03 0. 4 0. 05 0. 2 0. 2	3 µF 1 µF 17 µF 13 µF 13 µF 17 µF 14 µF 16 µF 12 µF 1 µF	50V 25V 25V 25V 50V 25V 50V 25V 50V 50V 25V 25V 25V 25V	J Z M Z J Z M M Z M J J Z Z	
-104MZ C -4476Z C -4476Z C -104MZ C -104MZ C -104MZ C -474Z E -104MZ C C -105Z E -104MZ F -104MZ TF -104MZ C -1	GAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP.		0. 05 0. 05 0. 4 0. 05 0. 2 0. 2 0. 2	1 µF 17 µF 1 µF 13 µF 17 µF 17 µF 14 µF 16 µF 12 µF 1 µF	25V 25V 25V 50V 25V 50V 16V 25V 50V 50V 25V 25V 25V	Z M Z J Z M Z M Z J Z Z M Z Z Z M Z Z Z Z	
-476Z E -104MZ MZ -476Z E -4774Z E -476Z E -104MZ C -105Z E -105Z E -224MZ TF -104MZ C -105Z E -105Z E -104MZ C	CAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP. G		0. 05 0. 05 0. 05 0. 05 0. 22	17 µF 1 µF 13 µF 17 µF 17 µF 17 µF 147 µF 16 µF 12 µF 1 µF	25V 25V 50V 25V 50V 16V 25V 50V 50V 50V 25V 25V 25V	M Z J Z M Z M J J Z Z	
-104MZ C C -333MZ M C -104MZ C C -474Z E -476Z E -104MZ C C -563MZ M C -224MZ TF -104MZ C C -104MZ C C -104MZ C C -104MZ C C	GAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP.		0. 05 0. 05 0. 4 0. 05 0. 2 0. 2	1 µF 3 µF 17 µF 17 µF 1 µF 16 µF 12 µF 1 µF	25V 50V 25V 50V 16V 25V 50V 50V 50V 25V 25V	Z J Z M Z M J J Z Z	
-104MZ C -333MZ M C -333MZ C C -333MZ C C C C C C C C C C C C C C C C C C C	GAP. GAP. GAP. GAP. GAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP. C		0. 05 0. 05 0. 4 0. 05 0. 2 0. 2	1 µF 3 µF 17 µF 17 µF 1 µF 16 µF 12 µF 1 µF	50V 25V 50V 16V 25V 50V 50V 50V 25V 25V	J M M Z M J J Z Z	
-333MZ M -104MZ C -474Z E -476Z E -104MZ C -105Z E -563MZ M -224MZ TF -104MZ C -104MZ C	GAP. GAP. GAP. GAP. GAP. CAP. CAP. CAP. CAP. CAP. CAP. CAP. C		0. 05 0. 4 0. 4 0. 05 0. 25 0. 22	3 μF 1 μF 17 μF 1 μF 1 μF 1 μF 1 μF 1 μF 1 μF	50V 25V 50V 16V 25V 50V 50V 25V 25V 25V	J M M Z M J J Z Z	
-104MZ C -474Z E -476Z E -104MZ C -105Z E -563MZ M -224MZ TF -104MZ C -104MZ C	GAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP.		0. 4 0. 4 0. 05 0. 2 0. 2	1 µF 17 µF 1 µF 1 µF 1 µF 2 µF 1 µF	25V 50V 16V 25V 50V 50V 50V 25V 25V	Z M Z M J J Z Z	
-474Z E -476Z E -104MZ C -1052 E -563MZ M -224MZ TF -104MZ C -104MZ C	GAP. GAP. GAP. GAP. GAP. GAP. GAP. GAP.		0. 4 0. 0. 05 0. 2 0. 0. 2	17 μF 1 μF 1 μF 1 μF 1 μF 1 μF 1 μF 1 μF	16V 25V 50V 50V 50V 25V 25V	M Z M J J Z Z	
-104MZ C -105Z E -563MZ M -224MZ TF -104MZ C -104MZ C	GAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 05 0. 2 0. 0. 2	1μF 1μF 6μF 1μF 1μF	25V 50V 50V 50V 25V 25V	Z M J Z Z	
-104MZ C -105Z E -563MZ M -224MZ TF -104MZ C -104MZ C	GAP. CAP. CAP. CAP. CAP. CAP. CAP.		0. 05 0. 2 0. 0. 2	1μF 1μF 6μF 1μF 1μF	25V 50V 50V 50V 25V 25V	Z M J Z Z	
-1052 E -563MZ M -224MZ TF -104MZ C -104MZ C	CAP. CAP. CAP. CAP. CAP. CAP.		0. 05 0. 2 0. 0. 2	1μF 6μF 2μF 1μF 1μF	50V 50V 50V 25V 25V	M J J Z Z	
-563MZ M -224MZ TF -104MZ C -104MZ C	CAP. F CAP. GAP. GAP. GAP.		0. 2 0. 0. 2	6μF 2μF 1μF 1μF	50V 50V 25V 25V	J J Z Z	
-224MZ TF -104MZ C -104MZ C	F CAP. CAP. CAP. CAP.		0. 2 0. 0. 2	2μF 1μF 1μF	50V 25V 25V	J Z Z	
-104MZ C -104MZ C	CAP. CAP. CAP.		0. 0. 2:	1μF 1μF	25V 25V	Z Z	
-104MZ C	CAP.		0. 23	1 µ F	25V	Z	
	CAP.		2				
-227Z E	CAP.			0 " F	10V	M	
				1 µ F	25V	Z	
	CAP.		•	5 p F	50V	J	
-104MZ C	CAP.		0.	1 µ F	25 V	Z	
-476Z E	CAP.			17 µ F	167	M	
	CAP.			1 μ F	25 V	Z	
	CAP.			1 μ F	25V	ž	
	CAP.			0 μ F	50V	Ñ	
	CAP.			17 μ F	167	Ñ	
-107Z E	CAP.		10	00 μ F	16V	M	
	CAP.			1μF	257	Ž	
	CAP.			1 µ F	50V	j	
	CAP.			1μF	25V	Z	
	CAP.			2 μ F	50V	J	
-107Z E	CAP.		10	)0 μ F	25V	N .	
-8R2Z PE	EAKING COIL			2 μ H			
	EAKING COIL			20 μ H			
	EAKING COIL			22 μ H			
	EAKING COIL			8 μ H			
-2R5J7 CH	HOKE COIL		2	5 μ H			
-4R7Z PE	EAKING COIL		4	7 µ H			
				2			
			6.	2 11 T			
-8R2Z P8	EAKING COIL		4.	ιμн			
-8R2Z P8							
-8R2Z P8 -4R7Z P8	-NED B:005						
-8R2Z PE -4R7Z PE B)-T2 ZE							
-8R2Z PE -4R7Z PE B) -T2 ZE T2 S1	I. DIODE						
-8R2Z PE -4R7Z PE B) -T2 ZE T2 SI B) -T2 ZE	I.DIODE Ener Diode						
-8R2Z PE -4R7Z PE B) -T2 ZE T2 SI B) -T2 ZE	I.DIODE Ener Diode						
-8R2Z PE -4R7Z PE B) -T2 ZE T2 S B) -T2 ZE T2 SI	I.DIODE Ener Diode I.Diode						
-8R2Z PE -4R7Z PE B)-T2 ZE T2 SI B)-T2 ZE T2 SI T2 SI T2 SI	I.DIODE ENER DIODE I.DIODE I.DIODE						
-8R2Z PE -4R7Z PE B) -T2 ZE T2 SI T2 SI T2 SI T2 SI T2 SI (8) -T2 ZE	I.DIODE ENER DIODE I.DIODE I.DIODE						
		6-4R7Z PEAKING COIL	6-4R7Z PEAKING COIL  (B) -T2 ZENER DIODE	6-4R7Z PEAKING COIL 4.	6-4R7Z PEAKING COIL 4.7 μ H  (8) -T2 ZENER DIODE -T2 SI. DIODE (8) -T2 ZENER DIODE -T2 SI. DIODE	5-4R7Z PEAKING COIL 4.7 μ H  (B) -T2 ZENER DIODE  -T2 SI. DIODE (B) -T2 ZENER DIODE	5-4R7Z PEAKING COIL 4.7μH  (B) -T2 ZENER DIODE -T2 SI. DIODE (B) -T2 ZENER DIODE -T2 SI. DIODE -T2 SI. DIODE -T2 SI. DIODE

Symbol No.	Part No.	Part Name	Description	ι
DIODE				
D1357	1SS133-T2	SI. DIODE		
D1358	1\$\$133-T2	SI. DIODE		
D1701-02	1SS133-T2	SI. DIODE		
D1704	188146-T2	SI,DIODE		
D1705	188133-12	SI. DIODE		
D1710-11	188133-72	SI. DIQDE		
D1751-53	133133-T2	SI. DIODE		
D1754-58	MTZJ6. 2 (B) -T2	ZENER DIODE		
D1801-02	1\$\$133-T2	SI. DIODE		
D1803	#TZJ6. 8 (A) -T2	ZENER DIODE		
D1804	1SS133-T2	SI. DIODE		
TRANSI	STOR			
Q1201-05	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1206-07	DTG323TS-T	DIGI. TRANSISTOR		
Q1208	2PA1015 (YG) -T	SI. TRANSISTOR		
01209	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1211-12	2PA1015 (YG) -T	SI. TRANSISTOR		
01213-14	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1215-16	DTG323TS-T	DIGI. TRANSISTOR		
Q1217	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1301	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1302	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1303-04	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1342	DTC144ES-T	DIGI. TRANSISTOR		
Q1343-44	2PC1815 (YG) ~T	SI. TRANSISTOR		
Q1345	DTC124ESA-T	DIGI. TRANSISTOR		
Q1346	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1349	2PC1815 (YG) -T	SI. TRANSISTOR		
01610	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1611	DTC323TS-T	DIGI. TRANSISTOR		
01613	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1701-04	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1752	2PA1015 (YG) -T	SI. TRANSISTOR		
01753	DTC124ES-T	DIGI. TRANSISTOR		
Q1801	2PA1015 (YG) -T	SI. TRANSISTOR		
1.0				
I C IC1301	CXA1545AS	I. C (MONO-ANA)		
101303	TDA9143	1 C		
101304	TDA4665	I. C (MONO-ANA)		
IC1305	TDA4780	I. C (MONO-ANA)		
101311	AN77L05-Y	1. C (MONO-ANA)		
IC1601	MSP3410B-PP-F7	1. C (DIGI-OTHER)		
IC1701	M37207EFSP	1 C		
101702	L78LRO5E-MA	I. C (MONO-ANA)		
101703	AT24C16-32WP2	I. C (EP-ROM)		
101704	AT24C16-10PC	i. C (EP-ROM)		
1C1751	SDA30C163	i. C (MICRO-COMP)		
IC1752	M27C1001-10F1	I. C. (EP-ROM)		
IC1753	AT24C16-10PC	I. C (EP-ROM)		
1C1754	SDA5275S	i. C. (MICRO-PROC)		
101755	MSM514400C60ZS	I. C (D-RAM)		
101756	TC4053BP	I. C (DIGI-MOS)		
101757	MN1280-Q	I. C (DIGI-MOS)		
OTHERS				
	QQRQ490-001	NOISE FILTER	× 3	
	CEMS009-064	I. C. SOCKET		
	CEMS007~008	I. C. SOCKET		
	CEMS006-068	IC SOCKET		
	CEMS007-032	IC SOCKET		
	CEMS007-008	I. C. SOCKET		
EF1001	CE41433-001Z	BEADS CORE		
EF1610-12	CE42142-103Z	EMI FILTER		
K1001	CE41433-001Z	BEADS CORE		

No.51239C

No.51239C

7

∠8VV∠ZEP △ Symbol No.	o. Part No. Part Name Description		Part Name Description	
OTHERS		ACTION BOOK AND		
K1003	CE41433-001Z	BEADS CORE		*
K1005	CE41492-001Z	CHOKE COIL		
K1009	CE41433-001Z	BEADS CORE		*
K1011	CE41433~001Z	BEADS CORE		*
K1013-14	CE41433-001Z	BEADS CORE		*
K1602	CE41433-001Z	BEADS CORE		*
K1701-02	CE41433-001Z	BEADS CORE		*
MD1		100Hz PWB ASSY	(Refer to P40)	
MD2		IF PWB ASSY	(Refer to P39)	
MD3		SUB TEXT PB ASSY	(As follows)	
TU1001	CEEK481-A01	TUNER		*
X1311	CE40749-001Z	CRYSTAL		*
X1312	CE40668-001Z	CRYSTAL		*
X1610	CE42546-001Z	CRYSTAL		*
X1701	CST8. COMTW	CER. RESONATOR		*
X1751	QAX0307-001	CER. RESONATOR		
X1752	QAX0351-001Z	X TAL		

# SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2) This PW Board Ass'Y is included in the above MAIN PW Board Ass'Y.

Ď Symbol No.	Part No.	Part Name	Description	n		Loca
CAPACI	TOR					
C1001	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	*
C1003	QCT25CH-270Z	C CAP.	27 p F	50V	j	*
C1005	QCT25CH-150Z	C CAP.	15 p F	50V	j	*
C1362	QCT25CH-270Z	C CAP.	27 p F	50V	J	*
C1701	QETN1HM-226Z	E CAP.	22 µ F	50V	M	*
C1702-04	QETN1HM~106Z	E CAP.	10 μ F	50V	M	*
C1705-07	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	*
COIL						· · · · ·
L1301	CELP027-390Z	PEAKING COIL	39 μ H			*
TRANSI	STOR					
Q1347	2SK301 (P) ~T	F. E. T.				*
Q1701-03	2PC1815 (YG) -T	S‡. TRANSISTOR				*
1 C	, , , ,					
IC1001	TC74ACOGAP	I C				

# IF PW BOARD ASS'Y(SMB0F701B-U2) This PW Board Ass'Y is included in the above MAIN PW Board Ass'Y.

Symbol No.	Part No.	Part Name	Description		١
RESIST	FOR				
R0103	QRSA08J-102YL	CHIP MG R	1kΩ 1/10W	J	
R0104	QRSAO8J-121YL	CHIP MG R	120 Ω 1/10W	j	
R0105	QRSA08J-151YL	CHIP MG R	150 Ω 1/10W	Ĵ	
R0106	QRSA08J-181YL	CHIP MG R	180 Ω 1/10W	Ĵ	
R0107	QRSA08J-151YL	CHIP MG R	150 Ω 1/10W	j	
CAPAC	TOP				
C0020	NCB21HK-472AY	CHIP CAP.	4700 p F 50V	K	
C0022-25	NCB21HK-472AY	CHIP CAP.	4700 p F 50V	K	
C0026-27	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V	K	
C0030	NGB21HK-472AY	CHIP CAP.	4700 p F 50V	ĸ	
C0040	NCTO3CH-102AY	CHIP CAP.	1000 pF 1600V	Ĥ	
C0040	QETN1CM-107Z	E CAP.	100 μ F 16V	M	
	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V	ĸ	
C0042			100 μF 16V	À	
C0043	GETN1CH-107Z	E CAP.	100 μ = 104	-	
C0044	NCB21HK-103AY	CHIP CAP.	0.01 μ F 50V	K	
C0046	NCB21HK-103AY	CHIP CAP.	0.01 μ F 50V	K	
C0047	QETN1CM-227Z	E CAP.	220 μ F 16V	М	
C0050	QETN1HM-105Z	E CAP.	1 µ F 50V	M	
C0051	NCB21HK-472AY	CHIP CAP.	4700 p F 50V	ĸ	
C0052	QAT3110-100A	TRIM CAP.	10 pF 100V		
C0053	NCTO3CH-6ROAY	CHIP CAP.	6 p F 1600V	Н	
C0054	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V	ĸ	
C0055	GETN1CM-107Z	E CAP.	100 µ F 16V	¥	
C0056	QETN1HM-474Z	E CAP.	0. 47 μ F 50V	W.	
C0057	NCTO3CH-102AY	CHIP CAP.	1000 pF 1600V	H	
C0057	NCB21HK-472AY	CHIP CAP.	4700 p F 50V		
	QAT3110-100A	TRIM CAP.	10 pF 100V	^	
C0059	NCTO3CH-120AY	CHIP CAP.	12 p F 1600V	Н	
00060		CHIP CAP.	7 p F 1600V	H	
C0061	NCTO3CH-7ROAY QETN1HM-474Z	E CAP.	7 p F 1600 V 0. 47 μ F 50 V	M M	
C0062	UEINIMM-4/4Z				
C0063	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V	K	
C0064	NCB21HK-472AY	CHIP CAP.	4700 p F 50V	K.	
C0065	QETN1HM-105Z	E CAP.	1 μ F 50V	M	
C0067	NCTO3CH-120AY	CHIP CAP.	12 pF 1600V	Н	
C0069-70	NCB21HK-103AY	CHIP CAP.	0.01 µ F 50V	K	
C0071	QETN1HM-336Z	E CAP.	33 μ F 50V	М	
C0080-81	NCB21HK~472AY	CHIP CAP.	4700 p F 50V	K	
C0101	GETN1CM-476Z	E CAP.	47 μ F 16V	M	
C0102	NCTO3CH-391AY	CHIP CAP.	390 pF 1600V	н	
C0103	NCTO3CH-121AY	CHIP CAP.	120 pF 1600V	Н	
C0104	NCTO3CH-181AY	CHIP CAP.	180 p F 1600V	Н	
C0105	NCF21EZ-104AY	C CAP.	0.1 μ F 25V	Z	
C0140	QETN1HM-335Z	E CAP.	3.3 µ F 50V	M	
C0141	NCB21HK-332AY	CHIP CAP.	3300 p F 50V	K	
C0142	QETN1HM-105Z	E CAP.	1 μ F 50V	M	
C0142	QFLC1HJ-683MZ	M CAP.	0.068 μ F 50V	ž	
C0144	QETN1HM-335Z	E CAP.	3.3 µ F 50V	M	
C0145	NCB21HK-222AY	CHIP CAP.	2200 p F 50V	ĸ	
C0601	QFLC1HJ-183MZ	M CAP.	0. 018 μF 50V	Ĵ	
C0602	GETN1CN-476Z	E CAP.	47 µF 16V	M	
C0602	QETN1HM-106Z	E CAP.	10 µ F 50V	ũ	
C0604	QETN1HM-105Z	E CAP.	1 µ F 50V	M	
C0605	QETN1CM-477Z	E CAP.	470 µF 16V	M	
C0606	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V	ĸ	
		CERAMIC FILTER			
CF0010-11	FTP40. 40MF	CERAMIC FILIER			
TRANSI	FORMER QQR0626-001	I.F. TRANSF.			
T0020	CELT001-307	C. WAVE TRANSF.			
T0051	CELT001-306	C. WAVE TRANSF.			
COIL					
L0020	CELP041-R47	PEAKING COIL	0. 47 μ Η		
			1.5 µ H		

No.51239C

8WZ2EP				
∆ Symbol No.	Part No.	Part Name	Description	Local
COIL				*
L0030	CE41131-2R2Y	INDUCTOR	2. 2 µ H	*
L0040	CE41131-120Y	INDUCTOR	12 µ H	*
L0041	CE41131-100Y	INDUCTOR	10 µ H	
L0050-53	GE41131-8R2Y	INDUCTOR	8. 2 μ Η	*
L0070	CE41131-5R6Y	INDUCTOR	5. δ μ H	:
L0071	GE41131-8R2Y	INDUCTOR	8.2 µ H	
L0101	GE41131~6R8Y	INDUCTOR	6. 8 µ H	*
L0102-03	CE41131-100Y	INDUCTOR	10 µ H	•
L0104	CE41131-5R6Y	INDUCTOR	5.6 µ H	*
DIODE				
D0020-21	1SS85-T5	SI. DIODE		
D0050-51	1SS85-T5	SI. DIODE		
TRANSI				
00012	2SC5083 (L-P) -T	SI. TRANSISTOR		*
08009	2SC2712 (YG) ~X	SI. TRANSISTOR		*
QQ101	2SC2712 (YG) ~X	SI. TRANSISTOR		*
00102	2SA1162 (YG) -X	SI. TRANSISTOR		*
00103	DTC144EK-X	DIGI. TRANSISTOR		*
00104	2SC2712(YG)-X	SI. TRANSISTOR		*
00106	2SC2712(YG)-X	SI. TRANSISTOR		*
00107	2SA1162 (YG) -X	SI. TRANSISTOR		*
00108	DTC144EK-X	DIGI. TRANSISTOR		*
Q0109-11	2SC2712 (YG) -X	SI. TRANSISTOR		*
00120-26	DTC144EK-X	DIGI. TRANSISTOR		*
00601-02	2SC2712 (YG) -X	SI. TRANSISTOR		*
1 C				
100010	TA8865BN	I. C (MONO-ANA)		
OTHERS				
CF0100	TPS5.5MW	CERAMIC FILTER		*
CF0140	CSB503F30-T2	CER. RESONATOR		*
△ R0609	QRZ0054-470M	FR	47 Ω 1/4₩ J	*
SF0010	QAX0316-001	SAW FILTER	-	*
SF0011	CE42574-702	SAW FILTER		
SF0012	CE42606-701	SAW FILTER		

### 100Hz PW BOARD ASS'Y (SMB0Z002B-U2)

This PW Board Ass'Y is included in the above MAIN PW Board Ass'Y.

Part No.	Part Name	Description		Local				
RESISTOR R0302 NRVA02D-1502NY M.F.R 15kΩ 1/10W J								
NRVA02D-1502NY								
NRVA02D-1102NY	CHIP MF R	11kQ 1/10	H J					
TOR								
QETN1CM-227Z	E CAP.			*				
NCF21EZ-104AY				*				
QETN1CM-227Z	E CAP.			*				
NCF21EZ-104AY	C CAP.			*				
QETN1CM-227Z	E CAP.			*				
NCF21EZ-104AY	C CAP.			*				
QETN1CM-227Z	E CAP.			*				
NCF21EZ-104AY	C CAP.	0.1μF 25	V 2	*				
QETN1AM-108Z	E CAP.	1000 µ F 10	V M	*				
	C CAP.	150 pF 50		*				
	CHIP CAP.	39 p F 1600	V H	*				
	CER CAP.	270 pF 50	V J	*				
		1 µ F 50	V M	*				
		0.22 µ F 50						
	C CAP.	0.1 μF 25	V Ž	*				
GETN1CM-476Z	E CAP.	47 μ F 16	V M	*				
NCS21HJ-151AY	C CAP.	150 p F 50	L V	*				
		39 pF 1600	V H	*				
		270 p F 50	¥ J	*				
		1 u F 50	V M	*				
			v z					
				*				
				*				
				*				
	O R NRVA02D-1502NY NRVA02D-1102NY T O R QETN1CM-227Z NCF21EZ-104AY QETN1CM-227Z NCF21EZ-104AY QETN1CM-227Z NCF21EZ-104AY QETN1CM-227Z NCF21EZ-104AY QETN1CM-227Z NCF21EZ-104AY QETN1AM-108Z NCS21HJ-151AY NCT03CH-390AY NCS21HJ-1571AY NCS21HJ-1571AY NCS21HJ-271AY NCF21EZ-104AY	O R     NRYA02D-1502NY	O R	O R NRVAO2D-1502NY NRVAO2D-1102NY         M. F. R CHIP MF R         15kΩ 1/10W J 11kΩ 1/10W J           T O R QETN1CM-227Z NCF21EZ-104AY NCF21EZ-104AY CF21EZ-104AY NCF21EZ-104AY CF21EZ-204AY CF21EZ-104AY CF21E				

Symbol No.	Part No.	Part Name	Description	L
CAPACI				
0123	NCS21HJ-271AY	CER, CAP.	270 p F 50V J	
0126	QETN1HM-106Z	E CAP.	10 µF 50V M	
10107	MOEGIUT_GOALV			
30127	NCF21HZ-224AY	CHIP C CAP.	0.22 µF 50V }	
0128	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
20191	NOF91EZ-104AV	E CAP.		
0132	QETNOJM-2272	E CAP.	220 F 6.3V H	
0133	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
0134	NGF21EZ-104AY	C CAP.	0.1 μ FF 25V Z	
		5 010		
0135-36	QETNOJM-227Z	E CAP.	220 μ F 6.3V M	
0137	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
0138	GETNOJM-227Z	E CAP.	220 µ F 6 3V M	
0139	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
0142-47	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
0148	QETNOJM-227Z	E CAP.	220 µ F 6.3 V M	
0149-54	NCF21EZ-104AY	C CAP.	0.1 μF 25V Z	
0155	NCTO3CH-390AY	CHIP CAP.	39 p F 1600V H	
0201-06	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
0207	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
0208-13	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
0214	NCTO3CH-100AY	CHIP CAP.	10 p F 1600V H	
0221-38	NCF21EZ-104AY	C CAP.	0.1 μ F 25V Z	
0301	QETNOJM-227Z	E CAP.	220 µF 6.3V M	
0302	NCF21EZ-104AY	C CAP.	.0.1μF 25V Z	
	QETNOJM-227Z	E CAP.		
0303	UE INUJH-ZZ/Z	E UAP.	220 μ F 6.3V M	
0304	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
0307-08	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
0309	QETNICM-107Z	E CAP.	100 µ F 16V M	
0310	QETNOJM-227Z	E CAP.	220 µ F 6.3V M	
0311	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
0313	NCS21HJ-152AY	CHIP C CAP.	1500 p F 50V J	
0314-18	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
0321	QETN1HM-105Z	E CAP.	1μF 50V M	
0322	NCF21HZ-224AY	CHIP C CAP.	0. 22 μ F 50V Z	
0323	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
0324	QETN1CM-476Z	E CAP.	47μF 16V M	
0331	GETNIHM-105Z	E CAP.	1μF 50V N	
0332	NCF21HZ-224AY	CHIP C CAP.	0.22μF 50V Z	
:0333	NCF21EZ~104AY	C CAP.	. 0.1μF 25V Z	
0341	QETN1HN-106Z	E CAP.	10 µ F 50V M	
0342	GETN1HM-105Z	E CAP.	1 µ F 50V M	
.0242	NCE2157-10417	C CAR	0.15 252 7	
0343	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
0401	NCB21HK-103AY	CHIP CAP.	0.01 µ F 50V K	
0402	NCF21EZ-104AY	G CAP.	0.1 μ F 25V Z	
0403	QETNOJM-227Z	E CAP.	220 µ F 6.3V M	
0404	NGF21EZ-104AY	C CAP.	0.1 µF 25V Z	
0405	QETN1CH-107Z	E CAP.	100 μ F 16V M	
0406	NCF21EZ-104AY	C CAP.	0.1 µF 50V Z	
0407	NGF21EZ-104AY	C CAP.	0.1μF 35V Z 0.1μF 25V Z	
0408	QETN1CM-107Z	E CAP.	100 μ F 16V M	
0409-10	NCTO3CH-270AY	CHIP CAP.	27 p F 1600V H	
0411	NCTO3CH-180AY	CHIP CAP.	18 p F 1600V H	
0412-13	NCB21HK-103AY	CHIP CAP.	0.01μF 50V K	
0415	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
COIL				
.0001-02	CE40344-4R7YL	INDUCTOR	4.7 μ Η	
.0001-02	CE40344-100YL	INDUCTOR	4.7μπ 10μH	
.0005-07	CE40344-4R7YL	INDUCTOR	4. 7 µ H	
.0101	GE41131-3R3Y	INDUCTOR	3.3 µ H	
.0111	GE41131-3R3Y	INDUCTOR	3.3 µ H	
0121	GE41131-3R3Y	INDUCTOR	3.3 µ H	
.0301	CE41131-100Y	INDUCTOR	10 µ H	
0401-02	CE40344-330YL	INDUCTOR	33 µ H	
	MA3051 (I ) = Y	ZENER DIODE		
D I O D E	MA3051 (L) -X	ZENER DIODE		

4V-20VVZZEF				
	Part No.	Part Name	Description	Local
	ISTOR			
Q0101	2SC2712 (YG) -X	SI. TRANSISTOR		*
00102	2SA1162 (YG) -X	SI, TRANSISTOR		*
00103	28C2712 (YG) -X	SI. TRANSISTOR		*
Q0104	2SA1162 (YG) -X	SI. TRANSISTOR		*
Q0111	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0112	2SA1162 (YG) -X	SI. TRANSISTOR		*
00113	2SC2712 (YG) -X	SI. TRANSISTOR		*
00114	2\$A1162 (YG) -X	SI. TRANSISTOR		*
00404	0000740/NO\ X	DI TRANCISTOR		_
Q0121	2SC2712 (YG) -X	SI. TRANSISTOR		*
00122	2SA1162 (YG) -X	SI. TRANSISTOR		*
00123	2SC2712 (YG) -X	SI. TRANSISTOR		*
00124	2SA1162 (YG) -X	SI. TRANSISTOR		*
00131	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0321	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0322	2SA1162 (YG) ~X	SI. TRANSISTOR		*
00323	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0324	2SA1162 (YG) -X	SI. TRANSISTOR		*
00324	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0332	2SA1162 (YG) -X	SI. TRANSISTOR		*
Q0333	2SC2712 (YG) -X	SI. TRANSISTOR		
Q0334	2SA1162 (YG) -X	SI. TRANSISTOR		*
Q0341	2SC2712 (YG) -X	SI. TRANSISTOR		
Q0342	2SA1162 (YG) -X	SI. TRANSISTOR		*
	2SC2712 (YG) -X	SI. TRANSISTOR		*
00343	2302/12(1G)-A	SI. IRANSISIUR		•
00344-45	2SA1162 (YG) -X	SI. TRANSISTOR		*
00351	2SC2712 (YG) -X	SI. TRANSISTOR		*
00361	2SC2712 (YG) -X	SI, TRANSISTOR		*
Q0401	2SC2712 (YG) -X	SI. TRANSISTOR		*
1 C	CDARGOE 3 W	I C(D(C)_HOS)		*
100101	SDA9205-2-W	I. C (DIGI-MOS)		•
100201	SDA9272	I. C (MICRO-COMP)		
100202	SDA9251-X	I. C (SAN)		•
100203-04	SDA9253	1. C (SAN)		_
100301	SDA9280-W	1. C (DIGI-OTHER)		*
100401	SDA9257	I. C (DIGI-OTHER)		
100402	MC74F04N-X	1 C		
OTHER	S			
DL0321	NQR0241-001X	L. P. F		*
DL0331	NQR0241-001X	L. P. F		*
DL0341	NQR0242-001X	L. P. F		*
EF0001-05	CE42482-103Y	EMI FILTER		*
EF0006	CE42482-470Y	EMI FILTER		
EF0101	CE42482-470Y	EMI FILTER		
EF0111	CE42482-470Y	EMI FILTER		
EF0121	CE42482-470Y	EMI FILTER		*
ETOTZT	OE42402-4/01	LMT TILIEN		•
EF0321	CE42482-470Y	EMI FILTER		*
EF0331	CE42482-470Y	EMI FILTER		*
EF0341-42	CE42482-470Y	EMI FILTER		*
EF0351	CE42482-470Y	EMI FILTER		*
EF0361	CE42482-470Y	EMI FILTER		*
K0001	CE41433-001Z	BEADS CORE		*
X0401	QAX0350-001	X TAL		
A0 10 1				

# DEF POWER PW BOARD ASS'Y (SMB-2002B-U2)

Loca		ion	Deveript	Part Name	Part No	Δ Symbol No.
					· o D	DECLES
						RESIST
	J	1 W	1 Ω	MF R	QRX019J-1R0S	R2409
	J	2₩	220 Ω	OM R	QRG029J-221	R2411
	Ĵ	1 W	1.8 Ω	MF R	QRX019J-1R8S	R2412-13
	Ĕ	1/4W	68kΩ	MF R	QRV141F-6802AY	R2418
				MF R	QRV141F-7870AY	R2419
	F	1/4W	787 Ω			
	F	1/4W	100k Ω	MF R	QRV141F-1003AY	R2421
	F	1/4W	1.5kΩ	MF R	QRV141F-1501AY	R2422
	F	1/4W	19.6kΩ	MF R	QRV141F-1962AY	R2508
	_			WE 5	000444E 54044V	00500
	F	1/4W	5.1kΩ	MF R	QRV141F-5101AY	R2509
	J	3W	2. 7k Ω	OM R	QRG039J-272	R2516
	J	3W	1. 2k Ω	OM R	QRG039J-122	R2517
	J	3₩	5.6 Ω	MF R	QRX039J-5R6	R2533
	J	2W	22k Ω	OM R	QRG029J-223	R2571
	Ĵ	1 OW	10 Ω	UNF R	QRF104J-100	R2581
3	ĸ	15W	4.7 Ω	UNF R	QRF154K-4R7	R2902
3	Ĵ	3W	4. / Ω 33k Ω	OM R	QRG039J-333	R2905
•	J	3#	33K W	Om K	GNG0330-333	12300
	J	5W	0.22 Ω	MP R	QRM059J-R22	R2907
•	Ĵ	3W	39kΩ	OM R	QRG039J-393	R2910
						R2951
*	j	7W	1kΩ	UNF R	QRF074J-102	
*	J	2₩	12kΩ	OM R	QRG029J-123	R2952
	J	3 <b>W</b>	5.6 Ω	MF R	QRX039J-5R6	R2953
	J	1 W	22 ♀	OM R	QRG019J-220S	R2962-63
	Ĵ	110	8. 2M ♀	CR	QRZ0057-825	R2991
						0.4.0.4.0.4
		1004		H GAD		CAPACI C2401
*	J	100V	0.1μF	M CAP.	QFLC2AJ-104MZ	
*	M	35V	330 µ F	E_CAP.	GETC1VM-337Z	C2402
	J	50V	0.1μF	TF CAP.	QFV71HJ-104MZ	C2403
	J	50V	0.47 µ F	TF CAP.	QFV71HJ-474MZ	C2405
*	J	100V	0.1 <u>ب</u> F	M CAP.	QFLC2AJ-104MZ	C2406
*	ĸ	100V	0. 022 μ F	M CAP.	QFLC2AK-223MZ	C2407
*	Ĵ	50V	0.47 μ F	TF CAP.	QFV71HJ-474MZ	C2410
	N	50V	22 μ F	E CAP.	QETN1HM-226Z	C2411
		301	22 41	L ONI .	GETHTIM ZZOZ	02411
*	M	35V	1000 μ F	E CAP.	QETM1VM-108	C2412
*	J	50V	47 p F	C CAP.	QCT25CH-470Z	C2415
*	J	50V	0.12μF	TF CAP.	QFV71HJ-124MZ	C2501
*	ŭ.	16V	1000 µ F	E CAP.	QETN1CM-108Z	C2502
*	M	100V	10 μ F	E CAP.	GETN2AM-106Z	C2503
*	M	10V	220 µ F	E CAP.	QETN1AM-227Z	C2504
*	J	100V	1000 p F	M CAP.	QFLC2AJ-102MZ	C2505
*	J	50V	0.1 μ F	M CAP.	QFLC1HJ-104MZ	C2507
					0543004 4004	00500
*	K	200V	0.01 μ F	M CAP.	QFM72DK-103M	C2508
*	M	10V	220 µ F	E_CAP.	QETN1AM-227Z	C2509
*	J	50V	0.22 μ F	TF CAP.	QFV71HJ-224MZ	C2520
*	2.5%	2000V ± 2	1800 p F	MPP CAP.	QFZ0117-1801S	C2521
		2000V ±		MPP CAP.	QFZ0117-4501S	C2522
*	Κ.	200V	0.068 μ F	M CAP.	QFM72DK-683M	C2523
-			4000 p F	MPP CAP.	QFZ0117-4001S	C2525
*	2. J n	200V 1.	0.43 μ F	MPP CAP.	QFZ0119-434S	C2526
•	-		U. 10 AI			
*	J	200V	0.51 μ F	MPP CAP.	QFZ0119-514S	C2527
*	J	200V	0.3 µ F	MPP CAP.	QFZ0119-304S	C2528
	±3%		0. 2 µ F	MPP CAP.	QFZ0128-204S	C2529
*	_ J	250V	0. 2 μ F	MPP CAP.	QFZ0194-304	C2533
	-			MPP CAP.		
*	:3%		0.53 μ F		QFZ0119-534S	C2536
*	M	160V	220 µ F	E CAP.	QETM2CM-227	C2537
*	M	50V	4.7μF	E CAP.	QEZ0195-475MZ	C2541
*	M	25V	47 μ F	E CAP.	QETN1EM-476Z	C2544
_		101	100 . 5	F 04D	OCTN+18-1077	02545
*	M	107	100 µ F	E CAP.	GETNIAM-107Z	C2545
*	K	50V	0.1μF	M CAP.	GFLC1HK-104MZ	C2546
*	M	50V	1µF	BP E CAP.	QEN61HM-105Z	C2551
	M	250V	10 µ F	E CAP.	GETN2EM-106Z	C2554
*	W	25V	1000 µ F	E CAP.	QETN1EM-108Z	C2555-56
-	Ñ	6. 3V	100 µ F	E CAP.	QETCOJM-107Z	C2581
•						
*	u	161/	47			
*	M	16V 400V	47 μ F 0. 47 μ F	E CAP. MM CAP.	QETN1CM-4762 QFZ9040-473N	C2582 C2902

Loc		on	Descripti	Part Name	Part No.	VZ2EP Symbol No.
	Р	400V	0. 047 μ F	0.010	TOR	CAPACI
	P	400V	4700 p F	C CAP.	QCZ9034-472A	C2903
	•	4001		C CAP.	QCZ9034-472A	C2904-05
	K	annov.	220 μ F 150 p F	E CAP.	QEZ0199-227M	C2906
		20001	130 p r	C CAP.	QCZ0122-151A	C2908
	K.		220 p F	C CAP.	QCZ0122-221A	C2909
	M	25V	220 µ F	E CAP.	QETN1EM-227Z	C2910
	K	50Y	0.1 µ F	M CAP.	GFLC1HK-104MZ	C2914
	J	50V	1000 p F	M CAP.	QFLC1HJ-102MZ	C2916
	M	50V	1 µ F	E CAP.	QETN1HM-105Z	C2919
	J	50V	4700 p F	M CAP.	QFLG1HJ-472MZ	C2920
	M	160V	200 μ F	E CAP.	QEZ0203-227	C2951
	M	16V	1000 µ F	E CAP.	QEHC1CM-108MZ	C2952
	M	16V	1000 μ F	E CAP.	QEHB1CM-108M	C2953
	M	107	2200 μ F	E CAP.	QEZ0106-228R	02954
	Z	25V	0.1μF	C CAP.	QCZ0120-104MZ	C2966-68
	M	50V	33 µ F	E CAP.	QEHC1HM-336MZ	G2970
	M	16V	100 μ F	E CAP.	QEHC1CM-107MZ	C2971
	M	10V	2200 µ F	E CAP.	GETN1AM-228Z	C2972
	М	10V	220 µ F	E CAP.	QEHC1AM-227MZ	
	M	16V	2200 µ F	E CAP.	QEHB1CM-228M	C2973
	M	10V	2200 µ F	E CAP.	QEZ0106-228R	C2975
	M	10V	100 µ F	É CAP.	QEHC1AM-107MZ	C2976
	K		150 p F	C CAP.		C2977
	M	25V	220 µ F	E CAP.	QCZ0122-151A QETN1EM-227Z	C2978 C2981
	M	50V	10 µ F	E CAP.		
	ĸ	400V	470 p F	C CAP.	QETN1HM-106Z	C2982-83
	M	400V	330 p F	C CAP.	QCZ9041-471A QCZ9041-332A	C2991 C2992
						·
				DRIVE TRANSF	CE42672-001	TRANSF T2501
				PING TRANSF.	QQR0706-001	T2521
				H. V. T (SERVICE)	CETHO20-00AJ1	
				SWITCH, TRANSF.	CETS089-001J4	12551
				POWER TRANSF.	QQT0147-001	T2901 T2981
			•			
				LINEARITY COIL	QQR0707-001	C Q 1 L L2521
				CHOKE COIL	QQR0705-001	L2541
				HEATER CHOKE	CELC901-046J6	
				CHOKE COIL	051 0055-100	L2551
			2.5 µ H	CHOKE COIL	CELC055-100	L2901-02
				HEATER CHOKE	CELCO05-2R5J7	L2903
			5.6 μ H	CHOKE COIL	CELC901-046J6 CELC057-5R6Z	L2951
					GELOOST SKOL	L2952-53
				ZENER DIODE	MT7 175-T9	DIODE
				SI. DIODE	MTZJ75-T2	D2401
				SI. DIODE	BYD33D-T3	D2402
				ZENER DIODE	188133-72	D2403
					MTZJ7.5S-T2	D2404
				SI. DIODE	1SS133-T2	D2405
				SI. DIODE	MA700A-T2	D2406-09
				SI. DIODE	1SS133-T2	D2410
				ZENER DIODE	MTZJ22(B)-T2	D2411
				SI. DIODE	BYD33G-T3	D2501
				ZENER DIODE	MTZJ7.5S-T2	D2502
				SI. DIODE	1SS133-T2	D2504
				ZENER DIODE	MTZJ6. 8 (A) -T2	D2505
				SI. DIODE	1SS146-T2	D2506
				SI. DIODE	1SS81-T5	
				SI. DIODE		D2507
				SI. DIODE	188133-T2 FMV-3FU-C1	D2508 D2521
				C1 0100E		
				SI.DIODE Zener Diode	V11CA-C1 MTZJ6.8(C)-T2	D2525
				SI. DIODE	#1400.0(0/=14	D2541
				SI. DIODE	188133-T2	D2542
				SI. DIODE	BYD33G-T3 BYW95B-20	D2550-51 D2552-53

⊥ Syn	nbol No.	Part No.	Part Name	Description	Loca
D	IODE				
D25	556	BYD33G-T3	\$1. DIODE		
D25		MTZJ33 (B) -T2	ZENER DIODE		
D25		MTZJ15 (B) -T2	ZENER DIODE		
D25	982	MTZJ7. 5 (B) -T2	ZENER DIODE		
D25	595	188133-72	SI. DIODE		
D29					
023 023	901	D3SB60 progom-to	BRIDGE DIODE		
D29		1SR124-400A-T2	SI. DIODE		
02.	,,,,	10K124 400K 12	ar. brobe		
D29	904-05	BYD33D-T3	SI. DIODE		and the property
D29	951-52	RU4C-C1	SI. DIODE		
D29		BYD33M-T3	SI. DIODE		
	954~55	BYW958-20	SI. DIODE		
D29		SF6L20U	SI. DIODE		
	958-59	SF6L20U	SI. DIODE		
D29		MTZJ5. 1 (A) -T2	ZENER DIODE		
D29	961	MTZJ5. 6 (A) -T2	ZENER DIODE		
	962-66	155133-T2	S1.0100E		
D29		1SS133~T2	SI. DIODE		
D29		188133-T2	\$1.0100E		
D29	81-84	1N4003-T2	SI. DIODE		
D29		1SS133-T2	SI. DIODE		
D29		MTZJ8. 2 (B) -T2	ZENER DIODE		
D29		1SS133-T2			
029	10 /	100100-12	St. DIODE		
Ti	RANSI	STOR			
	101-02	DTC144ESA-T	DIGI. TRANSISTOR		
Q24			\$1. TRANSISTOR		
		2PC1815 (YG) -T			
024		DTC144ESA-T	DIGI. TRANSISTOR		
024	105-06	2PC1815 (YG) -T	SI. TRANSISTOR		
025	501	BSN274	F. E. T.		
Q25	05	2PA1015 (YG) -T	SI. TRANSISTOR		
025		2PC1815 (YG) -T	SI. TRANSISTOR		
025		2SC5406-RL	SI. TRANSISTOR		
,_0					
025	23	1RF640	F. E. T.		
Q25	26	DTC124ESA-T	DIGI. TRANSISTOR		
025		2SD1408 (QY) -LB	SI. TRANSISTOR		
Q25		DTA124ESA-T			
000	550		DIGI. TRANSISTOR		
Q25		DTC144ESA-T	DIGI. TRANSISTOR		
025		2SA949 (Y) C1	SI TRANSISTOR		
Q25	82	DTC144ESA-T	DIGI. TRANSISTOR		
029		2SK2148-C1	F. E. T.		
029	155	2PC1815 (YG) -T	SI. TRANSISTOR		
Q29		2SC2655 (Y) -T	SI. TRANSISTOR		
Q29	382	2PC1815 (YG) -T	SI. TRANSISTOR		
102		LA7841	I C (MONO-ANA)		
	2401		I. C (MONO-ANA)		
	2501	TDA91518	I. C (DEF-PRO)		
	2541	UPC4558C	I.C (MONO-ANA)		
IC2	2901	MC44603P	I. C (MONO-ANA)		
102	2951	SE135N	I. C (HYBRID)		
	2952	LM2940CT-12	I. C (MONO-ANA)		
	2953	UPC2409AHF	I. C (MONO-ANA)		
	2953 2954	K1A7808P1	1. C (MONO-ANA)		
102		M.M. 10001 1	I. U (MUNU ANA)		
102	2955-56	PQ05RF21	1. C (MONO-ANA)		
	2957	K1A7808P1	I. C (MONO-ANA)		
	THERS	000017 ( 4000	c 0		.i
FR2		QRH017J-1ROM	FR	1 Ω 1W	•
FR2		QRH017J-1ROM	FR	1Ω 1₩	J .i
FR2	2553	QRZ0054-4R7M	FR	4.7 Ω 1/4W	J
K24		CE41433-001Z	BEADS CORE		-
	02-05	QQR0679-001	FERRITE BEADS		
K25		CE41433-001Z	BEADS CORE		
	901-04	CE42050-001Z	CORE		
	951	CE41433-001Z	BEADS CORE		

Part No.	Part Name Description		Loca
TLP621 (B)	I. C (PH. COUPLER)		
TLP721F (D4-GR)	I. C (PH. COUPLER)		
CESK028-002	RELAY		
CEKP002-003	W. P. THERMISTOR		
	TLP621 (B) TLP721F (D4-GR) CESK028-002	TLP621 (B)	TLP621 (B) I. C (PH. COUPLER) TLP721F (D4–GR) I. C (PH. COUPLER) CESK028–002 RELAY

#### CRT SOCKET PW BOARD ASS'Y (SMB-3002B-U2)

Symbol No.	Part No.	Part Name	Description	Loc
RESIST				
R3106	QRD14CJ-100SX	C R	10 Ω 1/4W J	
R3119	QRG029J-391A	OM R	390 Ω 2W J	
R3229-31	QRG019J-823S	OM R	82kΩ 1W J	
CAPACI				
C3101	QETN1HM-106Z	E CAP.	10 µ F 50V ₩	
C3102	QFLC1HK-103MZ	M CAP.	0.01 µ F 50V K	
C3103	QETN1HM-335Z	E CAP.	3.3 µ F 50V M	
C3104	QETN1CM-107Z	E CAP.	100 µ F 16V M	
C3107	QETC2CM-106Z	E CAP.	10μF 160V M	
C3110	QETC2CM-106Z	E CAP.	10 μ F 160V M	
C3111	QETCOJM-107Z	E CAP.	100 µ F 6.3V M	
C3118	GETN1HM-106Z	E CAP.	10 μ F 50V M	
C3204-09	QCZ0120-104MZ	C CAP.	0.1μF 25V Z	
C3210-12	QFH62EK-104MZ	MM GAP.	0.1 μ F 250V K	
C3218	QETM2EM-336	E GAP.	33 μ F 250V M	
C3219	QFZ0097-223M	M M CAP.	0.022 µ F 1250V K	
C3221	QETC2EM-106Z	E CAP.	10 µ F 250V M	
C3301	QETN1CM-107Z	E CAP.	100 µ F 16V M	
COIL				
L3101	CELP026-150Z	PEAKING COIL	15 $\mu$ H	
L3201-03	CELPO26-4R7Z	PEAKING COIL	4.7μΗ	
DIODE				
D3101-02	RH1S-T3	SI. DIODE		
D3103	MA165-T2	SI. DIODE		
D3151	15\$133-T2	SI. DIODE		
D3204-06	EU01N-T2	SI. DIODE		
D3301	1SS252-T2	SI. DIODE		
D3302-03	1SS133-T2	SI. DIODE		
TRANSI			'	
Q3101	2SA1309A (QR) -T	SI. TRANSISTOR		
Q3102-03	2SC3311A (QR) -T	SI. TRANSISTOR		
Q3104	2SA1309A (QR) -T	SI. TRANSISTOR		
03105	2SA1837	SI. TRANSISTOR		
Q3106	2504793	SI. TRANSISTOR		
Q3107	2SC3311A (QR) -T	SI. TRANSISTOR		
Q3108	2SC1906-T	SI. TRANSISTOR		
<b>Q33</b> 01	2PA1015 (YG) -T	SI. TRANSISTOR		
Q3302	2SC2655 (Y) -T	SI. TRANSISTOR		
03303	2PA1015 (YG) -T	SI. TRANSISTOR		
1 C	Th			
+C3201-03	TDA6111Q	I. C (MONO-ANA)		
OTHERS	0544400 0047	OHORE COTT		
K3101-04	CE41492-001Z	CHOKE COIL	560 O 1W '	
R3109 SK3001	QRH017J-561M	FR C.R.T.SOCKET	560 Ω 1W J	
	CE42535-001J1			

# AUDIO PW BOARD ASS'Y (SMB-6001B-U2)

1		-	Description	Part Numo	Part No.	Symbol No
					TOR	CAPACI
*	J	50V	0.68 µ F	TF CAP.	QFV71HJ-684MZ	C6101
*	M	25V	2200 μ F	E CAP.	QETM1EM-228	C6102-03
*	M	50V	1 µ F	E CAP.	QETN1HM-105Z	C6105
*	M	16V	100 µ F	E CAP.	QETN1CM-107Z	C6106
*	J	50V	0.68 μ F	TF CAP.	QFV71HJ-684MZ	C6108
	J	50V	0.1 μ F	TF CAP.	QFV71HJ~104MZ	C6109-10
*	M	50V	1 μ F	E CAP.	GETN1HM-105Z	C6112
*	M	16V	100 µ F	E CAP.	QETN1CM-107Z	C6113
*	J	50V	0.68 µ F	TF CAP.	QFV71HJ-684MZ	C6115-16
	J	50V	0.1 <u>u</u> F	TF CAP.	QFV71HJ-104MZ	C6117-18
*	J	50V	0.01 μ F	M CAP.	QFLC1HJ-103MZ	C6121
						DIODE
*				ZENER DIODE	MTZJ27 (B) -12	D6101~04
*				ZENER DIODE	MTZJ5. 1 (B) -T2	D6105
*				SI. DIODE	1\$\$133-T2	D6107
*				S1. DIODE	MA700-T2	D6108
*				SI. DIODE	155133-T2	D6112
*				SI. DIODE	1SS133-T2	D6115
						TRANSI
				DIGI. TRANSISTOR	DTC144ESA-T	Q6101
*				SI. TRANSISTOR	2PA1015 (YG) -T	Q6102
*				SI. TRANSISTOR	2PA1015 (YG) -T	Q6104
				DIGI. TRANSISTOR	DTC144ESA-T	Q6105
*				DIGI. TRANSISTOR	DTC323TS-T	Q6106-07
						1 C
*				1. C (MONO-ANA)	TDA2052V	106101-02
						OTHERS
*				BEADS CORE	CE41433-001Z	K6001-02

#### FRONT CONTROL PW BOARD ASS'Y (SMB-8002B-U2)

Loca		n	Descriptio	Part Name	Part No.	∆ Symbol No.
					TOR	CAPACI
*	M	50V	10 µ F	E CAP.	QETN1HM-106Z	C8003
*	Z	25V	0.1 <u>u</u> F	C CAP.	QCZ0120-104MZ	C8004
*	M	16V	47 µ F	E CAP.	QETN1CM-476Z	C8005
*	M	16V	47 μ F	E CAP.	QETN1CM-476Z	C8009
*	M	50V	10 µ F	E CAP.	QETN1HM-106Z	C8012
*	M	50V	1 µ F	E CAP.	QETN1HM-105Z	C8013-14
*	M	50V	10 µ F	E CAP.	QETN1HM-106Z	C8017-18
*	Z	25V	0.1 μ F	C CAP.	QCZ0120-104MZ	C8020-21
*			0. 47 μ F	MF CAP.	QFZ9040-474N	∑ C8901
						COIL
*				LEAD CORE	CE41832-001	L8001
*			5.6 μ H	PEAKING COIL	CELPO17-5R6Y	L8002-03
*			27 μ H	PEAKING COIL	CELP017-270Y	L8010-11
*				LEAD CORE	CE41832-001	L8012
						DIODE
*				C. D. S.	P1201	D8007
*				SI. DIODE	1SS133-T2	D8008
*			EC0	L. E. D. (GRN)	SLR-342MG-T16	D8009
*			POWER	L. E. D.	SPR-39MVWF	D8010
				SI. DIODE	1SS133-T2	D8011
*			TIMER	L. E. D. (ORG)	SLR-342DU-T16	D8012
*			3D-PHONIC	L. E. D. (YLW)	SLR-342YY-T16	D8013
*				ZENER DIODE	MT2J6. 8 (A) -T2	D8014
*				ZENER DIODE	MTZJ15 (C) -T2	D8015-16
*				ZENER DIODE	MTZJ6, 2 (B) -T2	D8017
•				ZENER DIODE	MTZJ5. 1 (B) -T2	D8018
					STOR	TRANSI
*				SI. TRANSISTOR	2PC1815 (YG) -T	08001
				DIGI. TRANSISTOR	DTC144ES-T	08002
·				DIGI. TRANSISTOR	DTA144ESA-T	08003-04

	NZ2EP Symbol No.	Part No.	Part Name	Description	Local
_	OTHERS				
		CEMG002-001Z	FUSE CLIP		*
		CM36548-001-E	L. E. D. HOLDER		*
		CM35921-A04-H	CDS HOLDER		
$\Lambda$	F8901	QMF51D2-3R15J1	FUSE	3. 15A	*
	J8001	QMS3007-C01	JACK	HEADPHONE	
	J8004	CEMN011-001	JACK	VAIN	*
	J8005	CEMN011-002	JACK	L4IN	· ·
	J8006	CEMN011-003	JACK	R41N	•
Δ	LF8901	CELF012-001J7	LINE FILTER		
$\overline{\Lambda}$	LF8902	CELF012-001J7	LINE FILTER		*
_	S8001	CESP001-001	PUSH SWITCH	CH UP/DOWN	
	S8002	CESP001-001	PUSH SWITCH	MENU	
Δ	S8901	QSP4K21-C01	PUSH SWITCH	MAIN POWER	*

#### DOLBY PW BOARD ASS'Y (SMB0D002B-U2)

Symbol No.	Part No.	Part Name	Description		Loc
CAPACI					-
C0101	GETN1CM-476Z	E CAP.		16V M	
C0102	NCTO3CH-680AY	CHIP CAP.	68 p F 16	00V H	
C0103	QETN1CM-476Z	E CAP.	47 µ F	16V M	
C0104	NCB21HK-473AY	CHIP CAP.	0.047 µ F	50V K	
C0105	NCB21HK-223AY	CHIP CAP.		50V K	
C0106	NCB21HK-102AY	CHIP CAP.		50V K	
C0107	QETN1CM-476Z	E CAP.		16V M	
C0108	NCB21HK-473AY	CHIP CAP.		50V K	
C0109	QETN1CM-476Z	E CAP.	47 µ F	16V M	
C0110	NCTO3CH-680AY	CHIP CAP.	68 p F 16	OOV H	
C0111	NCB21HK-473AY	CHIP CAP.		50V K	
CO112-13	GETN1CM-476Z	E CAP.		16V M	
CO115	NCB21HK-473AY	CHIP CAP.		50V K	
CO116-25	NCB21HK-102AY	CHIP CAP.		50V K	
C0126	GETN1CM-476Z	E CAP.		16V M	
00127-28	NCTO3CH-220AY	CHIP CAP.	22 p F 16	00V H	
C0129	QETN1HM-106Z	E CAP.		50V M	
C0130	NCB21HK-102AY	CHIP CAP.		50V K	
C0131	NCF21CZ-105AY	C CAP.		16V Z	
CO132	NCB21HK-102AY	CHIP CAP.		50V K	
CO133	NCF21CZ-105AY	C CAP.	1 μ F	16V Z	
C0134	QETN1HM-106Z	E CAP.	10 µ F	50V M	
C0135	NCB21HK-102AY	CHIP CAP.	1000 p F	50V K	
00136	NCF21CZ-105AY	C CAP.		16V Z	
C0137-38	GETNIHM-106Z	E CAP.	10 µ F	50V M	
C0139	NCB21HK-102AY	CHIP CAP.		50V K	
C0140	NCF21CZ-105AY	C CAP.		16V Z	
C0141	NCB21HK-102AY	CHIP CAP.		50V K	
		E CAP.		16V M	
C0142	GETN1CM-107Z	C CAP.		25V Z	
CO143	NCF21EZ-104AY				
CO144	QETN1CM-227Z	E CAP.		16V M	
C0145	NCF21EZ-104AY	C CAP.	0.1μF	25V Z	
C0146	QETN1CM-107Z	E CAP.		16V M	
CO147~53	NCF21EZ-104AY	C CAP.		25V Z	
CO201	NCB21HK-103AY	CHIP CAP.		50V K	
C0202	NGB21HK-223AY	CHIP CAP.		50V K	
C0203	NCB21HK-182AY	CHIP CAP.	1800 p F	50V K	
C0204	NCF21CZ-105AY	C CAP.	1 μ F	16V Z	
C0205	NCB21HK-103AY	CHIP CAP.		50V K	
C0206	NCB21HK-223AY	CHIP CAP.		50V K	
C0207	NC821HK-182AY	CHIP CAP.	1800 p F	50V K	
C0208	NCF21CZ-105AY	C CAP.	1 μ F	16V Z	
C0209	QETN1CM-107Z	E CAP.		16V M	
C0209	NCB21HK-103AY	CHIP CAP.		50V K	
		CHIP CAP.		50V K	
C0211	NCB21HK-182AY			16V Z	
C0212	NCF21CZ-105AY	C CAP.			
C0213	NCB21HK-103AY	CHIP CAP.		50V K 50V K	
CO214	NCB21HK-223AY	CHIP CAP.	0. 022 μ F	50 <b>V K</b>	

Symbol No.	Part No.	Part Name	Description	L
CAPACI				
CO215	NCB21HK-182AY	CHIP CAP.	1800 pF 50V K	
CO216	NCF21CZ-105AY	C CAP.	1μF 16V 2	
C0217	NCB21HK-223AY	CHIP CAP.	0.022 µF 50V K	
CO218-21	NCTO3CH-470AY	CHIP CAP.	47 pF 1600V H	
	NC103CH-47CK1	OHIP GAP.	47 pF 1600V H	
C0305	QETN1CN-4762	E CAP.	47 µF 16V 1	
C0401			47 pr 104 i	
00402	QETN1HM-226Z	E CAP.	22 u F 50V I	!
C0403-04	NGB21HK-272AY	CHIP CAP.	2700 pF 50V K	
00405 00	05744444 0057	5 444		
C0405-06 C0407-10	QETN1HM-225Z NCF21EZ-104AY	E CAP.	2. 2 µ F 50V M	
		G CAP.	0.1 µF 25V Z	
C0431	QETN1HN-226Z	E CAP.	22 µ F 50V N	
C0432	QETN1CM-477Z	E CAP.	470 µF 16V M	
CO433~34	NCB21HK-272AY	CHIP CAP.	2700 pF 50V K	
C0435	QETN1HM-225Z	E CAP.	2.2μF 50V M	
CO436-39	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
C0440	GETN1HM-225Z	E CAP.	2. 2 μ F 50V M	
CO451	NOCO+07 1054V	0.040	4 5 469 7	
	NCF21CZ-105AY	C CAP.	1μF 16V Z	
C0452	NCTO3CH-100AY	CHIP CAP.	10 p F 1600V H	
C0453	NCB21HK-103AY	CHIP CAP.	0.01 μ F 50V K	
C0454	NCB21HK-473AY	CHIP CAP.	0.047 µF 50V K	
C0456	GETNICM-107Z	E CAP.	100 µF 16V M	
C0457	NCF21CZ-105AY	C CAP.		
			1 µ F 16V Z	
C0458	NCB21HK-473AY	CHIP CAP.	0.047 μ F 50V K	
C0459	QETN1CM-1072	E CAP.	100 μ F 16V M	
C0460	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	
C0461	NCTO3CH-100AY	CHIP CAP	10 pF 1600V H	
C0462	NCF21CZ-105AY	CER. CAP.	1 µ F 16V Z	
C0465	NCF21CZ-105AY	CER. CAP.	1 µ F 16V Z	
C0501-02	NCF21CZ-105AY	C CAP.	1μF 16V Z	
C0503-04	NCTO3CH-100AY	CHIP CAP.	10 p F 1600V H	
C0505	QETN1HN-106Z	E CAP.	10 μ F 50V M	
C0507-08	QETN1HM-106Z	E CAP.	10 μ F 50V M	
C0531	NCF21CZ-105AY	C CAP.	1μF 16V Z	
C0532	NCTO3CH-100AY	CHIP CAP.	10 p F 1600V H	
C0536	GETN1HM-106Z	E CAP.	10 μ F 50V M	
C0551	NCF21CZ-105AY	C CAP.	1 µ F 16V Z	
C0553	NCTO3CH-100AY	CHIP CAP.	10 p F 1600V H	
C0555	QETN1HM-106Z	E CAP.	10 μ F 50V M	
C0556	QETN1CM-476Z	E CAP.	47 μF 16V M	
C0557	QETN1HM-106Z	E CAP.	10 μF 50V M	
C0601-02	GETN1HM-106Z	E CAP.	10 µ F 50V M	
C0603-04	GETNICM-476Z	E CAP.		
C0701-05	NCB21HK-222AY	CHIP CAP.	47μF 16V M 2200ρF 50V K	
	HODZIIN ZZZAI	OHIT OAF.	2200 pr 301 K	
COIL				
L0101-04	CE40344-4R7YL	INDUCTOR	4. 7 μ Η	
L0701-05	CE40344-100YL	INDUCTOR	10 µ H	
L0706	CE41433-001Z	BEADS CORE	•	
DIODE				
D0103	MA3062 (M) -X	ZENER DIQUE		
D0201	MA3062 (M) -X	ZENER DIODE		
D0451	MA141WK-X	SI, DIODE		
D0452	MA3062 (M) -X	ZENER DIODE		
D0453	MA141WK-X	SI. DIODE		
D0454	MA3062 (M) -X	ZENER DIODE		
D0501-02	MA3150 (M) -X	ZENER DIODE		
D0503	MA3062-X	ZENER DIODE		
D0532	MA3150 (M) -X	ZENER DIODE		
D0552	MA3150 (M) -X	ZENER DIODE		
		·	<del></del>	
TRANSI 00302	STOR DTC144EK-X	DIGI. TRANSISTOR		
Q0451-52	DTC323TK-X	DIGI. TRANSISTOR		
Q0453	DTC144EK-X	DIGI. TRANSISTOR		
Q0501	2SA1162 (YG) -X	SI. TRANSISTOR		
Q0502-03	DTC323TK-X	DIGI. TRANSISTOR		
Q0531	2SA1162 (YG) -X	SI. TRANSISTOR		
Q0532	DIG3231K-X	DIGI. TRANSISTOR		
Q0551	2SA1162 (YG) -X	SI, TRANSISTOR		
40331	2341102 (10) -X	JI. IRANJIJIUK		
00553	DTC323TK-X	DIGI, TRANSISTOR		

No.51239C

No.51239C

4 .

PRINTED	WIRING	BOARD	PARTS	TZLI
1 1/11/1 1	4411/1140	DOMIND	INIJ	LIJI

MAIN PW BOARD ASS'Y (SMB-1003B-U2)

Symbol No.	Part No.	Part Name	Description	on		
RESIST	O.B.					
RESIS!	QRD12CJ-474SX	CR	470k Q	1/2W	j	
R1206		OM R				
	QRG019J-101S		100 Ω	1W 1/2W	J	
R1229	QRD123J-181SX	C R	180 Ω		J	
R1231	QRG019J-101S	OM R	100 Ω	1 W	J	
R1748	QRB069J-103	NET. R				
R1798-99	QRD12CJ-820SX	C R	82 Q	1/2W	J	
CAPACI	TOR					
C1001	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1002	QETC1HM-107Z	E CAP.	100 µ F	50V	M	
C1003	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C1004	QETN1CM-107Z	E CAP.	100 μ F	16V	M	
C1005	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	ž	
C1006	QETN1CM-227Z	E CAP.	220 μ F	16V	Ñ	
				50V	W	
C1008 C1011	GETN1HM-106Z GETN1CM-476Z	E CAP. E CAP.	10μF 47μF	16V		
					-	
C1012	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z M	
C1201	QETN1CM-227Z	E CAP.	220 µ F	167		
C1203-04	QETN1HN-105Z	E CAP.	1 µ F	50V	M	
C1205-06	QETN1HM-335Z	E CAP.	3.3 µ F	50V	M	
C1 207	QETN1CM-227Z	E CAP.	220 μ F	16V	M	
C1209	QETN1CM-476Z	E CAP.	47 μ F	16V	M	
C1210	QETN1CM-477Z	E CAP.	470 µ F	16V	M	
C1212-13	QETN1HM-105Z	E CAP.	1 μ F	50V	M	
C1214-15	QETN1HM-335Z	E CAP.	3.3 µ F	50V	M	
C1216-17	QETN1HM-105Z	E CAP.	1 μ F	50V	M	
C1218-19	QETN1CM-476Z	E CAP.	47 µ F	167	M	
		E CAP.		50V	M	
C1220	QETN1HM-105Z	E CAP.	1μF	16V		
C1221-22	QETN1CM-107Z		100 µ F			
C1223-24	QETN1HM-105Z	E CAP.	1μΕ	50V	M	
C1231-32	QETN1CM-476Z	E CAP.	47 μ F	16V	M	
C1301	QETN1CM-227Z	E CAP.	220 μ F	1 6 V	¥	
C1302	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1304	QETN1CM-476Z	E CAP.	47 μ F	16V	M	
C1305	QETN1HM-226Z	E CAP.	22 µ F	50V	M	
C1306	QFLC1HJ-223MZ	M CAP.	0. 022 μ F	50V	j	
C1307-08	QETN1HM-105Z	E CAP.	1 μ F	50V	M	
C1311-13	QCZ0120~104MZ	C CAP.	0.1μF	25V	ž	
C1315	QFV71HJ-474MZ	TF CAP.	0. 47 μ F	50V	Ĵ	
C1316	QCZ0120-104MZ	C CAP.	0.1μF	25V	ž	
				504		
C1317	QFV71HJ-154MZ	TF CAP.	0.15 μ F	50V	ž	
C1318	QCZ0120-104MZ	C CAP.	0.1μF	25V	Ž	
C1320	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
C1321-22	QCT25CH-120Z	C CAP.	12 p F	50V	J	
C1323	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
C1325-26	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1327	GETN1CM-227Z	E CAP.	220 μ F	16V	M	
C1328-32	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	ž	
C1335	QFLC1HJ~103MZ	M CAP.	0. 01 ي <i>و</i> 1	50V	J	
				50V	M	
C1341	QEN61HM-105Z	BP E CAP.	1μF			
C1348	QCZ0120-104MZ	C CAP.	0.1µF	25V	Z	
C1350-52	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1353-55	QFV71HJ-224MZ	TF CAP.	0. 22 μ F	50V	J	
C1357	QETN1HM-105Z	E GAP.	1 μ F	50V	M	
C1358	QETN1HM-475Z	E CAP.	4.7μF	50V	M	
C1359	GETN1HM-105Z	E CAP.	1 µ F	50V	М	
C1360	QETN1HM-335Z	E CAP.	3.3 µ F	50V	M	
C1363	QETN1CM-107Z	E CAP.	100 µ F	16V	Ü	
			2200 µ H	100	K	
C1365	QEZ0106-228R	E CAP.	2200 # 11	50V	ij	
C1610-11	QCT25CH-2ROZ	C CAP.	2 p F	16V	M	
C1612	QETN1CM-476Z	E CAP.	47 µ F			
C1615	QETN1HM-106Z	E CAP.	10 μ F	50V	M	
C1616	QCZ0120-104MZ	C CAP.	0.1μF	25V	z	
C1617	QETN1HM-105Z	E CAP.	1 µ F	50 <b>V</b>	М	
01017						

Loca	Description	Part Name	Pert No.	Symbol No.
				10
		1. C (D1G1-MOS)	SAA73671-X	100101
		I. C (M)	TMS57052BFT	100102
		I. C (D-RAM)	LC32464M-80X	IC0103
		I. C (MONO-ANA)	PCM1717E-X	IC0104-05
		I. C (MONO-ANA)	BA4558F-X	IC0111
		I. C (MONO-ANA)	UPC324G2-X	IC0201-02
		1. C (DIGI-MOS)	TC4052BF-X	100301
		I C (DIGI-OTHER	TDA7315D	IC0401
		I. C (DIGI-OTHER)	TDA7315D	100431
		I. C (MONO-ANA)	BA4558F-X	IC0451-52
		1. C (MONO-ANA)	BA4558F-X	100501
		I. C (MONO-ANA)	BA4558F-X	100551
				OTHERS
		EMI FILTER	CE42482-103Y	EF0101-05
		PIN JACK	CEMN036-004	J0001
		PIN JACK	CEMN061-001	J0002
		BEADS CORE	CE42681-001Y	K0101-02
		BEADS CORE	CE42681-001Y	K0104-07
*		BEADS CORE	CE41433-001Z	K0108
		CRYSTAL	NAX0001-001X	X0101

#### AV TERMINAL PW BOARD ASS'Y (SMB0J001B-U2)

Δ	Symbol No.	Part No.	Part Name	Description	n		Local
	CAPACI C0102-04 C0301	TOR GEKC1CM-106GMZ GEKC1CM-476MZ	E CAP. E CAP.	10 μ F 47 μ F	16V 16V	M M	*
_	COIL				-		
	L0101-04	CELP017-5R6Y	PEAKING COIL	5.6 μ H			*
	L0105	CE41832-001	LEAD CORE				*
	L0201-04	CELP017-5R6Y	PEAKING COIL	5.6 μ H			*
	L0205	CE41832-001	LEAD CORE				*
	L0301-02	CELP017-5R6Y	PEAKING COIL	5.6 μ H			*
	L0303	CE41832-001	LEAD CORE				*
_	OTHERS			-			
	J0001-03	CE40529-006	SCART CONNECTOR				

#### AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))

△ Symbol No.	Part No.	Part Name	Description	Local
OTHERS	SJFOWOO1A(U)	AUTO ASPECT MODULE		

50

VZ2EP	Dank No.	Part Name	Descriptio	n		Loca
Symbol No.	Part No.	FATC NAME				
CAPACI	TOR	C CAP.	0.1μF	25V	Z	
C1625	QCZ0120-104MZ	E CAP.	10 μ F	50V	Ĭ.	
C1626	QETN1HM-106Z	E CAP.	1 µ F	50V	N	4
C1627	QETN1HM-105Z		1μF	50V	ŭ	
C1629-30	QETN1HM-105Z	E CAP.	10 µ F	50V	ī	
C1631	GETNIHM-106Z	E CAP. C CAP.	0.1μF	25V	ž	-
C1632	QCZ0120-104MZ		10 µ F	50V	ũ	
C1633	QETN1HM-106Z	E CAP.	10 μ F	50V	M	٠.,
C1645	QETN1HM-106Z	É CAP.	10 # F	301	-	
C1646	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	:
C1647	GETN1HM-106Z	E CAP.	10 μ F	50V	M	
C1649	QETN1HM-106Z	E CAP.	10 μ F	50V	M	1
C1660	QFLC1HJ-333MZ	M CAP.	0.033 μ F	50V	J	:
C1703	QCZ0120-104MZ	C CAP.	0.1 μ F	25 V	Z	
C1704	QETNIAM-107Z	E CAP.	100 µ F	10V	M	:
C1705-06	QCT25CH-3R0Z	C CAP.	3 p F	50V	j	
C1707	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
01700	QFLC1HJ-333MZ	M CAP.	0.033 μ F	50V	J	
C1708	QCZ0120-104MZ	C CAP.	0.1µF	25V	Z	
C1709	QEZ0120-104M2 QETN1EM-476Z	E CAP.	47 µ F	25V	M	
C1710	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Ž	
C1711		M CAP.	0.033 μ F	50V	J	
C1712	QFLC1HJ-333MZ	C CAP.	0.1µF	25V	ž	
C1713	QCZ0120-104MZ	E CAP.	0. 47 μ F	50V	Ñ	
C1714 C1715	GETN1HM-474Z GETN1CM-476Z	E CAP.	47μF	16V	M	
			0.15	25V	Z	
C1716	QCZ0120-104MZ	C CAP.	0.1μF	50V	¥	
C1717	QETN1HM-105Z	E CAP.	1 µ F			
C1751	QFLC1HJ-563MZ	M GAP.	0.056 μ F	50V	J	
C1752	QFV71HJ-224MZ	TF CAP.	0. 22 μ F	50V	Ä	
C1754	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	
C1756-57	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1758	QETN1AM-227Z	E CAP.	220 µ F	10V	M	
C1759	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	
C1760-61	QCT25CH-150Z	C CAP.	15 p F	50V	J	
01762	QCZ0120-104MZ	C CAP.	0.1μF	25∀	Z	
C1763	QETN1CM-476Z	E CAP.	47 µ F	16V	M	
	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C1764	QCZ0120-104MZ	G CAP.	0.1 µ F	25V	Z	
C1766-68		E CAP.	10 μ F	50V	M	
C1769-71	QETN1HM-106Z	E CAP.	47 µ F	16V	M	
C1772	GETNICH-476Z	E CAP.	100 µ F	167	Ñ	
C1773	GETN1CM-107Z	E UAP.	100 Д 1			
C1776	QCZ0120-104MZ	C CAP.	0.1μF	25V 50V	Z J	
C1780	QFLC1HJ-104MZ	M CAP.	0.1µF	25V	ž	
C1781	QCZ0120-104MZ	C CAP.	0.1μF	50V	Ĵ	
C1782	QFLC1HJ-223MZ	M CAP.	0. 022 μ F		M	
C1801	QETN1EM-107Z	E CAP.	100 μ F	25V		
COIL						
L1001-02	CELPO26-8R2Z	PEAKING COIL	8.2 µ H			
L1003	CELP026-221Z	PEAKING COIL	220 µ H			
L1601	CELP027-220Z	PEAKING COIL	22 µ H			
L1602	CELP027-180Z	PEAKING COIL	18 <i>µ</i> H			
L1611-12	CELC005-2R5J7	CHOKE COIL	2. 5 μ H			
L1701	CELPO26-4R7Z	PEAKING COIL	4.7 μ H			
L1702	CELP026-8R2Z	PEAKING COIL	8. 2 µ H			
L1753	CELP026-4R7Z	PEAKING COIL	4. 7 μ H			
			8. 2 µ H			
L1791-92	CELP026-8R2Z	PEAKING COIL	ο. 2 μ π			
DIODE	HTT 140 (D) TO	ZENER DIODE				
D1201-11	MTZJ13 (8) -T2					
D1212-13	1SS133-T2	SI. DIODE				
D1214-15	MTZJ13 (B) -T2	ZENER DIODE				
D1343	188133-72	SI. DIODE				
D1345-48	1SS133-T2	SI. DIODE				
D1349	MTZJ6, 2(B)-T2	ZENER DIODE				
	1SS133-T2	SI, DIODE				

Symbol No.	Part No.	Part Name	Description	
DIODE				
D1356	1SS146-T2	SI. DIODE		
D1357-58	1SS133-T2	SI. DIODE		
D1701-02	1SS133-T2	\$1.DIODE		
D1704	188146-T2	SI. DIODE		
D1705	188133-T2	SI. DIODE		
D1710-11 D1751-53	188133 - T2 188133 - T2	SI. DIODE		
D1754-58	#12J6, 2 (B) -T2	SI. DIODE		
D1734-30	■1230, 2 (B) -12	ZENER DIODE		
D1801-02	1SS133-T2	S1. DIODE		
D1803	MTZJ6. 8 (A) -T2	ZENER DIODE		
D1804	1SS133-T2	S1. DIODE		
TRANSI				
Q1201-05	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1206-07	DTC323TS-T	DIGI. TRANSISTOR		
01208	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1209	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1211-12	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1213-14	2PC1815 (YG) -T	SI. TRANSISTOR		
91215-16	DTC323TS-T	DIGI. TRANSISTOR		
Q1217				
W1217	2PA1015 (YG) -T	SI. TRANSISTOR		
01301	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1302	2PC1815 (YG) -T	SI. TRANSISTOR		
01303-04	2PA1015 (YG) -T	SI. TRANSISTOR		
Q1342	DTC144ES-T	DIGI. TRANSISTOR		
Q1343-44	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1345	DTG124ESA-T	DIGI. TRANSISTOR		
Q1346	2PC1815 (YG) -T	SI. TRANSISTOR		
01349	2PC1815 (YG) -T	SI. TRANSISTOR		
01610	2PA1015 (YG) -T	S1. TRANSISTOR		
01611	DTC323TS-T	DIGI. TRANSISTOR		
Q1613	2PC1815 (YG) -T	SI. TRANSISTOR		
01701-04	2PC1815 (YG) -T	SI. TRANSISTOR		
01752	2PA1015 (YG) -T	SI. TRANSISTOR		
01753	DTC124ES-T	DIGI. TRANSISTOR		
Q1791-94	2PC1815 (YG) -T	SI. TRANSISTOR		
Q1801	2PA1015 (YG) -T	SI. TRANSISTOR		
1 C				
101301	CXA1545AS	I. C (MONO-ANA)		
IC1303	TDA9143	I G		
101303	TDA4665	I. C (MONO-ANA)		
IC1305	TDA4780			
		I. C (MONO-ANA)		
101311	AN77L05-Y	I. C (MONO~ANA)		
IC1601	MSP34108-PP-F7	I. C (DIGI-OTHER)		
101701	M37207EFSP	1 C		
101702	L78LRO5E-MA	I.C (MONO-ANA)		
101703	AT24C16-32WP2	I.C (EP-ROM)		
IC1704	AT24C16-10PC	1. C (EP-ROM)		
101751	SDA30C163			
		I. C (MICRO-COMP)		
IC1752 IC1753	M27C1001-10F1	1. C (EP-ROM)		
	AT24C16-10PC	I. C (EP-ROM)		
101754	SDA5275S	I. G. (MICRO-PROC)		
101755	MSM514400C60ZS	I. C (D-RAM)		
IC1756	TC4053BP	1. C (DIGI-MOS)		
IC1757	MN1280-Q	1. C (D1G1-MOS)		
OTHERS				
J E	QQR0490~001	NOISE FILTER	×3	
	CEMS009-064	I. C. SOCKET	_	
	CEMS007-008	I. C. SOCKET		
	CEMS006-068			
		IC SOCKET		
	CEMS007-032	IC SOCKET		
	CEMS007-008	I. C. SOCKET		
EF1001	CE41433-001Z	BEADS CORE		
EF1610-12	CE42142-103Z	EMI FILTER		

Δ Symbol No.	Part No.	Part Name	Description	Loca
OTHERS	3			
K1001	CE41433-001Z	BEADS CORE		*
K1003	CE41433-001Z	BEADS CORE		*
K1005	CE41492-001Z	CHOKE COIL		
K1009	CE41433-001Z	BEADS CORE		*
K1011	CE41433-001Z	BEADS CORE		*
K1013-14	CE41433-001Z	BEADS CORE		*
K1602	CE41433-001Z	BEADS CORE		*
K1701-02	CE41433-001Z	BEADS CORE		*
MD1		100Hz PWB ASSY	(Refer to P56)	
MD2		IF PWB ASSY	(Refer to P55)	
MD3		SUB TEXT PB ASSY	(As follows)	
TU1001	CEEK481-A01	TUNER	,	
X1311	CE40749-001Z	CRYSTAL		*
X1312	CE40668-001Z	CRYSTAL		*
X1610	CE42546-001Z	CRYSTAL		*
X1701	CSTB. COMTW	CER. RESONATOR		*
X1751	QAX0307-001	CER. RESONATOR		
X1752	QAX0351-001Z	X TAL		*

#### SUB TEXT PW BOARD ASS'Y (SMB-1111B-U2)

This PW Board Ass'Y is included in the above MAIN PW Board Ass'Y.

Symbol No.	Part No.	Part Name	Description	n		Loca
CAPACI	TOR				•	
C1001	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	*
C1003	QCT25CH-270Z	C CAP.	27 p F	50V	J	*
C1005	QCT25CH-150Z	C CAP.	15 p F	50V	J	*
C1362	QCT25CH-270Z	C CAP.	27 p F	50V	J	*
C1701	QETN1HM-226Z	E CAP.	22 u F	50V	М	*
C1702-04	QETN1HM-106Z	E CAP.	10 μ F	507	M	*
C1705-07	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	*
COIL						
L1301	CELP027-390Z	PEAKING COIL	<b>39</b> μ Η			*
TRANSI	STOR					
Q1347	2SK301 (P) -T	F. E. T.				*
Q1701-03	2PC1815 (YG) -T	SI. TRANSISTOR				*
1 C	<u> </u>					
IC1001	TC74AC00AP	ı C				

## IF PW BOARD ASS'Y(SMB0F701B-U2)

Symbol No.	Part No.	Part Name	s'Y. Descript	i on		Loca
RESIST	OR					
R0103	QRSA08J-102YL	CHIP MG R	1kΩ	1/10W	J	1
R0104	QRSA08J-121YL	CHIP MG R	120 Ω	1/10W	J	
R0105	QRSA08J-151YL	CHIP MG R	150 Ω	1/10W	J	
R0106	QRSA08J-181YL	CHIP MG R	180 Ω	1/10W	J	1
R0107	QRSA08J-151YL	CHIP MG R	150 Ω	1/10W	J	
CAPACI						
00020	NCB21HK-472AY	CHIP CAP.	4700 p F	50V	K	
COO22-25	NCB21HK-472AY	CHIP CAP.	4700 p F	50V	K	*
CO026-27	NGB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	1
00030	NCB21HK-472AY	CHIP CAP.	4700 p F	50V	K	•
00040	NCTO3CH-102AY	CHIP CAP.	1000 p F		H	
00041	QETN1CM-107Z	E CAP.	100 µ F	16V 50V	M K	*
00042 00043	NCB21HK-103AY QETN1CM-107Z	CHIP CAP. E CAP.	0.01 μ F 100 μ F	16V	M	
20044		OULD DAD		EOV	v	
20044	NCB21HK-103AY	CHIP CAP.	0. 01 μ F	50V	K K	
0046	NCB21HK-103AY	CHIP CAP.	0. 01 μ F	50V 16V	K M	
0047	QETN1CM-227Z	E CAP.	220 μ F		M	3
0050	GETN1HM-105Z	E CAP. CHIP CAP.	1 μ F 4700 p F	50V 50V	ĸ	
0051 0052	NCB21HK-472AY	TRIM CAP.	4700 p F	1007	**	•
0052	QAT3110~100A NCT03CH~6ROAY	CHIP CAP.	iopr 8~ c	1600V	н	
0054	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	
0055	QETN1CM-107Z	E CAP.	100 µ F	16V	M	*
0056	QETN1HM-474Z	E CAP.	0.47 μ F	50V	W.	•
0057	NCTO3CH-102AY	CHIP CAP.	1000 p F		H	*
0057	NCB21HK~472AY	CHIP CAP.	4700 p F	50V	ĸ	
0059	QAT3110-100A	TRIM CAP.	10 p F	100V	"	
0060	NCTO3CH-120AY	CHIP CAP.	12 p F	1600V	н	*
0061	NCTO3CH-7ROAY	CHIP CAP.	7 n F	1600V	н	
0062	GETN1HM-474Z	E CAP.	0. 47 μ F	50V	M	*
:0063	NCB21HK-103AY	CHIP CAP.	0. 01 μ F	50V	ĸ	
0064	NCB21HK-472AY	CHIP CAP.	4700 p F	507	K	*
0065	QETN1HM-105Z	E CAP.	1μF	50V	M	*
0067	NCTO3CH-120AY	CHIP CAP.	12 p F	1600V	H	*
0069-70	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	ĸ	*
0071	QETN1HM-336Z	E CAP.	33 μ F	50V	M	*
0080-81	NCB21HK-472AY	CHIP CAP.	4700 p F	50V	K	*
0101	QETN1CM-476Z	E CAP.	47 μ F	16V	М	*
0102	NCTO3CH-391AY	CHIP CAP.	390 p F	1600V	Н	*
0103	NCTO3CH-121AY	CHIP CAP.	120 p F	1600V	н	*
0104	NCTO3CH-181AY	CHIP CAP.	180 p F	1600V	Н	*
0105	NCF21EZ-104AY	C CAP.	0.1μF	25V	Z	*
0140	QETN1HM-335Z	E CAP.	3.3 µ F	50V	M	*
0141	NCB21HK-332AY	CHIP CAP.	3300 p F	50V	K	*
0142	GETN1HM-105Z	E CAP.	1μΕ	50V	M	*
0143	QFLC1HJ-683MZ	M CAP.	0.068 μ F	50V	Z	*
C0144	QETN1HM-335Z	E CAP.	3.3 µ F	50 <b>V</b>	¥	*
00145	NCB21HK-222AY	CHIP CAP.	2200 p F	50V	K	*
0601	QFLC1HJ-183MZ	M CAP.	0.018 µ F	50V	J	*
00602	QETN1CM-476Z	E CAP.	47 µ F	1 6 V	M	*
00603	QETN1HM-106Z	E CAP.	10 µ F	50V	M	*
0604	QETN1HM-105Z	E CAP.	1 μ F	50V	M	*
0605	QETN1CM-477Z	E CAP.	470 μ F	16V	M	
0606	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50 <b>V</b>	K	*
CF0010-11	FTP40. 40MF	CERAMIC FILTER				
TRANSF						
T0020	QQR0626-001	I.F. TRANSF.				*
T0050	GELT001-307	C. WAVE TRANSF.				*
T0051	CELT001-306	C. WAVE TRANSF.				
COIL		BELVING TO	0.47 "			
L0020	CELP041~R47 CE41131-1R5Y	PEAKING COIL INDUCTOR	0,47 μ H 1,5 μ H			:
L0021						

55

-28WZ2EP				
△ Symbol No.	Part No.	Part Name	Description	Local
COIL				
L0030	CE41131-2R2Y	INDUCTOR	2. 2 μ Η	*
L0040	CE41131-120Y	INDUCTOR	12 μ H	*
L0041	CE41131-100Y	INDUCTOR	10 µ H	*
1.0050-53	CE41131-8R2Y	INDUCTOR	8.2 µ H	*
L0070	CE41131-5R6Y	INDUCTOR	5.6 µ H	*
L0071	CE41131-8R2Y	INDUCTOR	8.2 <u>µ</u> H	
L0101	CE41131-6R8Y	INDUCTOR	6.8 µ H	
L0102-03	CE41131-100Y	INDUCTOR	10 μ H	*
L0104	CE41131-5R6Y	INDUCTOR	5.6 µ H	•
DIODE				
D0020-21	1\$\$85-T5	SI. DIODE		
D0050-51	1SS85-T5	SI. DIODE		
TRANSI				
Q0012	2SC5083 (L-P) -T	SI. TRANSISTOR		*
00080	2SC2712 (YG) -X	SI. TRANSISTOR		*
00101	2SC2712 (YG) -X	SI. TRANSISTOR		*
00102	2SA1162 (YG) -X	SI. TRANSISTOR		*
00103	DTC144EK-X	DIGI. TRANSISTOR		*
. 00104	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0106	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0107	2SA1162 (YG) -X	SI. TRANSISTOR		*
00108	DTC144EK-X	DIGI. TRANSISTOR		*
Q0109-11	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0120-26	DTC144EK-X	DIGI. TRANSISTOR		*
00601-02	2SC2712 (YG) -X	SI. TRANSISTOR		*
10				
100010	TA8865BN	I.C (MONO-ANA)		
OTHERS				
CF0100	TPS5.5MW	CERAMIC FILTER		*
CF0140	CSB503F30-T2	CER. RESONATOR		*
▲ R0609	QRZ0054-470M	FR	47 Ω 1/4W J	*
SF0010	QAX0316-001	SAW FILTER		*
SF0011	CE42574-702	SAW FILTER		
SF0012	CE42606-701	SAW FILTER		

#### 100Hz PW BOARD ASS'Y(SMB0Z002B-U2)

This PW Board Ass'Y is included in the above MAIN PW Board Ass'Y.

Loc		on	Descripti	Part Name	Part No.	Symbol No.
					OR	RESIST
	J	1/10W	15kΩ	M. F. R	NRVA02D-1502NY	R0302
	J	1/10W	11kΩ	CHIP MF R	NRVA02D-1102NY	R0303
					TOR	CAPACI
	M	16V	220 μ F	E CAP.	QETN1CM-227Z	C0001
	Z	25V	0.1 µ F	C CAP.	NCF21EZ-104AY	C0002
	M	16V	220 μ F	E CAP.	QETN1CM-227Z	C0003
	Z	25V	0.1μF	C CAP.	NCF21EZ-104AY	C0004
	M	16V	220 µ F	E CAP.	QETN1CM-227Z	C0005
	2	25V	0.1μF	C CAP.	NCF21EZ-104AY	C0006
	M	16V	220 µ F	E CAP.	QETN1CM-227Z	C0007
	Z	25V	0.1 μ F	G CAP.	NCF21EZ-104AY	C0008
	м	10V	1000 µ F	E CAP.	GETN1AM-108Z	C0009-10
	J	50V	150 p F	C CAP.	NCS21HJ-151AY	C0101
	H	1600V	39 p F	CHIP CAP.	NCTO3CH-390AY	C0102
	J	50V	270 p F	CER, CAP.	NCS21HJ-271AY	C0103
	M	50V	1 µ F	E CAP.	QETN1HM-105Z	C0106
	Z	50V	0.22 μ F	CHIP C CAP.	NCF21HZ-224AY	C0107
	Z	25V	0.1 μ F	C CAP.	NCF21EZ-104AY	C0108
	М	16V	47 μ F	E CAP.	QETN1CM-476Z	C0109
	j	50V	150 p F	C CAP.	NCS21HJ-151AY	C0111
	H	1600V	39 p F	CHIP CAP.	NCTO3CH-390AY	C0112
	J	50V	270 p F	CER. CAP.	NCS21HJ-271AY	C0113
	M	50V	1 µ F	E CAP.	QETNIHM-105Z	C0116
	Z	50V	0.22 µ F	CHIP C CAP.	NCF21HZ-224AY	C0117
	Z	25V	0.1 μ F	C CAP.	NCF21EZ-104AY	CQ118
	J	50V	150 p F	C CAP.	NCS21HJ-151AY	C0121
	Н	1600V	39 p F	CHIP CAP.	NCTO3CH-390AY	C0122

Symbol No.	Part No.	Part Name	Description	Loc
CAPACI	TOR			
C0123	NCS21HJ-271AY	CER. CAP.	270 pF 50V J	
C0126	QETN1HM-106Z	E CAP.	10 µ F 50V M	
G0127	NGF21HZ-224AY	CHIP G CAP.		
C0128				
60128	NCF21EZ-104AY	C CAP.	0.1 u F 25V Z	
C0132	GETNOJM-227Z	E CAP.	220 µF 6.3V M	
CO133-34	NCF21EZ-104AY	G CAP.		
C0135-36	QETNOJM-227Z	E CAP.	0.1 μ F 25V Z 220 μ F 6.3V M	
C0137 C0138	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
	QETNOJM-227Z	E CAP.	220 μ F 6.3V M	
C0139	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
C0142-47	NCF21EZ-104AY	G CAP.	0.1μF 25V Z	
C0148	QETNOJM-227Z	E CAP.	220 µ F 6.3 V Mi	
CO149-54	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
C0155	NCTO3CH-390AY	CHIP CAP.	39 p F 1600V H	
C0201-06	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
C0207	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
CO208-13	NCF21EZ-104AY			
C0208-13	NCTO3CH-100AY	C CAP.	0.1μF 25V Z	
		CHIP CAP.	10 p F 1600V H	
C0221-38	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
C0301	QETNOJM-227Z	E CAP.	220 μ F 6 3V M	
C0302	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
C0303	QETNOJM-227Z	E CAP.	220 μ F 6.3V M	
C0304	NCF21EZ-104AY	C CAP.	0.1 µF 25V Z	
C0307-08	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
C0309	QETN1CM-107Z	E GAP.		
C0310				
C0310	QETNOJM-227Z	E CAP.	220 µ F 6.3V M	
	NCF21EZ-104AY	C CAP.	F 25V Z بر 1.0	
CO313	NCS21HJ-152AY	CHIP C CAP.	1500 p.F 50V J	
CO314-18	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
C0321	GETN1HM-105Z	E CAP.	1 μ F 50V N	
C0322	NCF21HZ-224AY	CHIP C CAP.	0. 22 μ F 50V Z	
CO323	NCF21EZ-104AY	C CAP.	0.1μF 25V Z	
C0324	GETN1CM-476Z	E CAP.		
C0331	GETNIHM-105Z			
C0332	NCF21HZ-224AY	E CAP. CHIP C CAP.	1μF 50V 11 0.22μF 50V Z	
20000	11050157 101111			
C0333	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	,
C0341	QETN1HM-106Z	E CAP.	10 µ F 50V M	*
C0342	QETN1HM-105Z	E CAP.	1 µ F 50V №	
CO343	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	,
C0401	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	
C0402	NCF21EZ-104AY	C CAP.	0.1 μF 25V Z	
00403	GETNOJM-227Z	E CAP.		
C0404			220 µ F 6.3V M	
	NCF21EZ-104AY	C CAP.	0.1 µ F 25V Z	
00405	GETN1CH-107Z	E CAP.	100 µF 16V №	
C0406	NCF21EZ-104AY	C CAP.	0.1μF 50V Z	
CO407	NCF21EZ-104AY	C CAP.	0.1 u F 25V Z	
00408	QETN1CM-107Z	E CAP.	100 μ F 16V M	1
0409-10	NCTO3CH-270AY	CHIP CAP.	27 p F 1600V H	,
CO411	NCTO3CH-180AY	CHIP CAP.	18 pF 1600V H	
00412-13				
0412-13 00415	NCB21HK-103AY NCF21EZ-104AY	CHIP CAP. C CAP.	0.01 μ F 50V K 0.1 μ F 25V Z	
· · · · · · · · · · · · · · · · · · ·				
COIL	25.400.44.4031/			
L0001-02	CE40344-4R7YL	INDUCTOR	4. 7 μ H	
∟0003-04	CE40344-100YL	INDUCTOR	10 µ H	
_0005-07	CE40344-4R7YL	INDUCTOR	4. 7 μ H	
L0101	CE41131-3R3Y	INDUCTOR	3.3 <u>µ</u> H	
L0111	CE41131-3R3Y	INDUCTOR		
L0121	CE41131-3R3Y	INDUCTOR	3.3 µ H	
			3.3 µ H	
L0301	CE41131-100Y	INDUCTOR	10 μ H	*
L0401-02	CE40344-330YL	INDUCTOR	33 μ Η	
D I O D E 00301	MA3051 (L) -X	ZENER DIODE		

AV-32WZ2EN
AV-32WZ2EP
AV-28WZ2EN
AV-28WZ2EP

28WZ2EP				
△ Symbol No.	Part No.	Part Name	Description	Local
TRANSI	STOR			
Q0101	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0102	2SA1162 (YG) ~X	SI. TRANSISTOR		*
G0103	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0104	2SA1162 (YG) -X	SI. TRANSISTOR		*
Q0111	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0112	2SA1162 (YG) -X	SI. TRANSISTOR		*
Q0113	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0114	2SA1162 (YG) -X	SI. TRANSISTOR		*
00121	2SC2712 (YG) -X	SI. TRANSISTOR		*
00122	2SA1162 (YG) -X	SI. TRANSISTOR		*
Q0123	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0124	2SA1162 (YG) -X	SI. TRANSISTOR		*
00131	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0321	2SC2712 (YG) -X	\$1. TRANSISTOR		*
Q0322	2SA1162 (YG) -X	SI, TRANSISTOR		*
00323	2SC2712 (YG) -X	SI. TRANSISTOR		*
00324	2SA1162 (YG) -X	SI. TRANSISTOR		*
00331	2SC2712 (YG) -X	SI. TRANSISTOR		*
00332	2SA1162 (YG) -X	SI. TRANSISTOR		*
00333	2SC2712 (YG) -X	SI, TRANSISTOR		*
00334	2SA1162 (YG) -X	SI. TRANSISTOR		*
00341	2SC2712 (YG) -X	SI. TRANSISTOR		*
00342	2SA1162 (YG) -X	SI. TRANSISTOR		*
00343	2SC2712 (YG) -X	S1. TRANSISTOR		*
90344-45	2SA1162 (YG) -X	SI. TRANSISTOR		*
Q0351	2SC2712 (YG) -X	SI. TRANSISTOR		*
Q0361	2SC2712 (YG) -X	SI. TRANSISTOR	• .	*
90401	2SC2712 (YG) -X	SI. TRANSISTOR		*
1 C				
1C0101	SDA9205-2-W	I. C (DIGI-MOS)		*
IC0201	SDA9272	I. C (MICRO-COMP)		
1C0202	SDA9251-X	I.C (SAM)		*
C0203-04	SDA9253	I. C (SAM)		
100301	SDA9280-W	I. C (DIGI-OTHER)		*
100401	SDA9257	I. C (DIGI-OTHER)		
100402	MC74F04M-X	I C ~		
OTHERS				
DL0321	NQR0241-001X	L. P. F		*
DL0331	NQR0241-001X	L. P. F		*
DL0341	NQR0242-001X	L. P. F		*
EF0001-05	CE42482-103Y	EMI FILTER		*
EF0006	CE42482-470Y	EMI FILTER		*
EF0101	CE42482-470Y	EMI FILTER		*
EF0111	CE42482-470Y	EMI FILTER		*
EF0121	CE42482-470Y	EMI FILTER		*
EF0321	CE42482-470Y	EMI FILTER		*
EF0331	CE42482-470Y	EMI FILTER		*
EF0341-42	CE42482-470Y	EMI FILTER		*
EF0351	CE42482-470Y	EMI FILTER		*
EF0361	CE42482-470Y	EMI FILTER		*
K0001	CE41433-001Z	BEADS CORE		*
X0401	QAX0350-001	X TAL		

# POWER DEF PW BOARD ASS'Y (SMB-2003B-U2) A Symbol No. Part No. Part Name

⊥ Symbol No.	Part No.	Part Name	Description	LOGA
RESIS	T O B			
R2409	QRX019J-1R0S	MF R	1Ω 1W J	
R2411	QRG029J-221	OM R	. 220 Ω 2W J	
R2412-13	QRX019J-1R8S	MF R	1.8 Ω 1W J	
R2418	QRV141F-6802AY	MF R	68kΩ 1/4W F	
R2419	QRV141F-7870AY	MF R	787 Ω 1/4W F	
R2421	QRV141F-1003AY	MF R	100kΩ 1/4W F	
R2422	QRV141F-1501AY	MF R	1.5kΩ 1/4W F	
R2508	QRV141F-2002AY	MF R	20kΩ 1/4W F	
R2509	ORV141F-4701AY	MF R	4.7kΩ 1/4W F	
R2516	QRG039J-272	OM R	2.7kΩ 3W J	
R2517	QRG039J-122	OM R	1.2kΩ 3W J	
R2533	QRX039J-5R6	MF R	5.6 Ω 3W J	
R2571	QRG029J-223	OM R	22kQ 2₩ J	
R2581	QRF104J-100	UNF R	10 Ω 10W J	*
		UNF R		
R2902	QRF154K-4R7		4.7 Ω 15W K	*
R2905	QRG039J-333	OM R	33kΩ 3W J	*
R2907	QRM059J-R22	MP R	0.22 Ω 5W J	
R2910	QRG039J-393	OM R	39kQ 3W J	-
R2951	QRF074J-102	UNF R	. 1kQ 7W J	_
R2952	QRG029J-123	OM R	12kΩ 2W J	*
R2953	QRX039J-5R6	MF R	5.6 Ω 3W J	
R2962-63	QRG019J-220S	OM R	22 Ω 1W J	*
R2991	QRZ0057-825	C R	8.2MΩ 1W J	*
CAPAC	LTOR			
C2401	QFLC2AJ-104MZ	M CAP.	0.1μF 100V J	*
C2402	QETC1VM-337Z	E CAP.	330 µF 35V M	*
C2403	QFV71HJ-104MZ	TF CAP.	0.1μF 50V J	
C2405	QFV71HJ-474MZ	TF CAP.		*
C2406				*
	QFLC2AJ-104MZ	M CAP.	0.1μF 100V J	
C2407	QFLC2AK-223MZ	M CAP.	0.022 μF 100V K	*
C2410	QFV71HJ-474MZ	TF CAP.	0.47 µ F 50V J	*
C2411	QETN1HM-226Z	E CAP.	22μF 50V M	*
C2412	QETMIVM-108	E CAP.	1000 µ F 35V M	*
C2415	QCT25CH-470Z		47 p.F 50V J	*
C2501	QFV71HJ-124MZ	TF CAP.	0.12 μ F 50V J	*
C2502	QETN1CM-108Z	E CAP.	1000 µF 16V MH	*
C2503	QETN2AM-106Z	E CAP.	10 µ F 100V ₩	*
C2504	QETN1AM-227Z	E CAP.	220 µ F 10V M	*
C2505	QFLC2AJ-102MZ	M CAP.	1000 p F 100V J	*
C2507	QFLC1HJ-104MZ	M CAP.	0.1 µ F 50V J	*
	05H30DK 400H	W 04B	0.04 5 0004 4	_
C2508	QFM72DK-103M	M CAP.	0.01 µF 200V K	*
C2509	GETN1AM-227Z	E CAP.	220 µF 10V M	*
C2520	QFV71HJ-224 <b>M</b> Z	TF CAP.	0.22μF 50V J	*
C2521	QFZ0117-1701S	MPP CAP.	1.7 $\mu$ F 2000V ± 2.5%	
C2522	QFZ0117-4701S	MPP CAP.	4700 p F 2000V ± 2.5%	
C2523	QFM72DK-683M	M CAP.	0.068 µF 200V K	*
C2525	QFZ0117-4701S	MPP CAP.	4700 p F 2000V ± 2.5%	
C2526	QFZ0119-684S	MPP CAP.	0.68 µF 200V J	*
			-	
C2527	QFZ0119-514S	MPP CAP.	0.51 μ F 200V J	*
C2528	QFZ0128-404S	MPP CAP.	0.4 µ F 400V ±3%	
C2529	QFZ0128-204S	MPP CAP.	0.2 µ H 400V ±3%	
C2533	QFZ0194-534	MPP CAP.	0.53 µF 250V J	
C2536	0FZ0119-534S	MPP CAP.	0.53 µF 200V ±3%	*
		E CAP.		*
C2537	QETM2CM-227			
C2541	QEZ0195~475MZ	E CAP.	4.7μF 50V M	*
C2544	QETN1EM-476Z	E CAP.	47 μ F 25V M	*
C2545	QETN1AM-107Z	E CAP.	100 µ F 10V M	*
				*
C2546	QFLC1HK-104MZ	M CAP.		
C2551	QEN61HM-105Z	BP E CAP.	1μF 50V M	*
C2554	QETN2EN-106Z	E CAP.	10 μ F 250V M	*
02007	GETN1EM-108Z	E CAP.	1000 µ F 25V M	*
C2555-56				
C2555~56	QCZ0122-681A	C CAP.	680 pF 2000V K	
		C CAP. E CAP.		

	VZ2EP Symbol No.	Part No.	Part Name	Description	n 		Loc
_	CAPACI	TOR		0. 47 μ F	400V	M	
Δ	C2902	QFZ9040-473N	MM CAP.		400V	P	
	C2903	QCZ9034-472A	C CAP.			P	
	C2904-05	QCZ9034-472A	C CAP.		400V	•	
	C2906	QEZ0199-227M	E CAP.	220 µ F		ĸ	
	C2908	QCZ0122-151A	C CAP.	150 p F 2	0004	ĸ	
	C2909	QCZ0122-221A	C CAP.	220 p F 2	0004	ù	
	C2910	QETN1EM-227Z	E CAP.	220 μ F	25V		
	C2913	QETC1EM-477Z	E CAP.	470 µ F	25V	¥	
	C2914	QFLC1HK-104MZ	M CAP.	0.1μF	50V	K	
	C2916	QFLC1HJ-102MZ	M CAP.	1000 p F	50V	J	
		QETN1HM-105Z	E CAP.	1 μ F	50V	M	
	C2919	QFLC1HJ-472MZ	M CAP.	4700 p F	50V	J	
	C2920	QEZ0203-227	E CAP.	200 μ F	160V	M	
	C2951	QEHC1CM-108MZ	E CAP.	1000 μ F	16V	M	
	C2952		E CAP.	1000 µ F	16V	M	
	C2953	QEHB1CM-108M QEZ0106-228R	E CAP.	2200 µ F	10V	M	
	C2954			0.1 u F	25V	Z	
	C2966-68	QCZ0120-104MZ	C CAP.	33 μ F	50V	M	
	C2970	QEHC1HM-336MZ	E CAP.	100 µ F	16V	M.	
	C2971	QEHC1CM-107MZ	E CAP.		107	M	
	C2972	QETN1AM-228Z	E CAP.	2200 μ F	107	Mi	
	C2973	QEHC1AM-227MZ	E CAP.	220 μ F		M	
	G2975	QEHB1CM-228M	E CAP.	2200 μ F	16V		
	C2976	QEZ0106-228R	E CAP.	2200 µ F	10V	M	
	C2977	QEHCIAM-107MZ	E CAP.	100 μ F	10 <b>V</b>	М	
	00070	QCZ0122-151A	C CAP.	150 p F		K	
	C2978	0571157 0077	E CAP.	220 µ F	25V	M	
	C2981	GETN1EM-227Z	E CAP.	10 μ F	50V	M	
	C2982-83	QETN1HM-106Z		470 p F	400V	ĸ	
	C2991	QCZ9041-471A	C CAP.	330 p F	400V	Ni.	
٩	C2992	QCZ9041-332A	C CAP.	330 p1	1001		
	TRANSF	ORMER					
	T2501	CE42672-001	DRIVE TRANSF				
	T2521	0080706-001	PINC. TRANSF.				
٨	12551	CETHO21-00AJ1	H. V. T (SERVICE)				
•	T2561	CE42692-001J1	DAF TRANSF.				
		CETS089-001J4	SWITCH, TRANSF.				
2	12901	QQT0147-001	POWER TRANSF.				
_	T2981	QQ10147-001					
	COIL		LINEARITY COIL				
	L2521	QQR0707-002					
	L2541	QQR0705-001	CHOKE COIL				
	L2551	CELC901-056J6	HEATER CHOKE	40 U			
	L2901-02	CELC055-100	CHOKE COIL	10 µ H			
	L2903	CELC005-2R5J7	CHOKE COIL	2.5 μ H			
	L2951	CELC901-046J6	HEATER CHOKE				
	L2952-53	CELCO57-5R6Z	CHOKE COIL	5.6 µ H			
-	DIODE						
	D100E	MTZJ75-T2	ZENER DIODE				
	02402	BYD33D-T3	St. DIODE				
		1SS133-T2	SI. DIODE				
	D2403		ZENER DIODE				
	D2404	MTZJ7.5S-T2	SI. DIODE				
	D2405	1SS133-T2	S1. D100E				
	D2406-09	MA700A-T2					
	D2410	1SS133-T2	SI. DIODE				
	D2411	MTZJ22(B)-T2	ZENER DIODE				
	D2501	BYD33G-T3	SI. DIODE				
	D2502	MTZJ7.5S-T2	ZENER DIODE				
		1SS133-T2	SI. DIODE				
	D2504	MT7 IS 0 /4\-T9	ZENER DIODE				
	D2505	MTZJ6.8(A)-T2	SI. DIODE				
	D2506	1SS146-T2					
	02507	1SS81-T5	S1.DIODE				
	D2508	188133-72	SI. DIODE				
	D2521	FMV-3FU-C1	S1. DIODE				
	D2525	V11CA-C1	SI. DIODE				
			ZENER DIODE				

Symbol No.	Part No.	Part Name	Description	Loc
DIODE				
02542	1SS133-T2	S1.DIODE		
D2550-51	BYD33G-T3	S1. DIODE		
D2552-53	BYW958-20	SI.DIODE		
D2556	BYD33G-T3	S1. DIDDE		
D2571	MTZJ33 (B) -T2 MTZJ15 (B) -T2	ZEMER DIODE		
D2581	MTZJ15 (B) ~T2	ZENER DIODE		
D2582	MTZJ7. 5 (B) -T2	ZENER DIODE		
D2585	188133-T2	SI. DIODE		
02303	100100-12	31.01006		
D2901	D3S860	BRIDGE DIODE		
D2902	BYD33M-T3	SI, DIODE		
D2903	1SR124-400A-T2	SI. DIODE		
D2904-05	BY033D-T3	S1. DIODE		
D2951-52	RU4C-C1	S1. D100E		
D2953	BYD33M-T3	ST. DIODE		
D2954-55	BYW958-20			
		SI. DIODE		
D2956	SF6L20U	S1. D100E		
D2958-59	SF6L20U	SI. DIODE		
02960				
	MTZJ5. 1 (A) -T2	ZENER DIODE		
D2961	MTZJ5. 6 (A) -T2	ZENER DIODE		
D2962-66	1SS133-T2	SI. DIODE		
D2968	1SS133-T2	SI. DIODE		
D2970	1SS133-T2	SI. DIODE		
D2981-84	1N4003-T2	SI. DIODE		
D2985	1SS133-T2			
02963	133133-12	SI. DIODE		
D2986	MTZJ8. 2(8)-T2	ZENER DIODE		
D2987	1SS133-T2	SI. DIODE		
TRANSI	CTAR			
		==		
02401-02	DTC144ESA-T	DIGI. TRANSISTOR		
Q2403	2PC1815 (YG) -T	SI. TRANSISTOR		
02404	DTC144ESA-T	DIGI. TRANSISTOR		
Q2405-06				
	2PC1815 (YG) -T	S1. TRANSISTOR		
Q2501	BSN274	F. E. T.		
Q2505	2PA1015 (YG) -T	SI. TRANSISTOR		
02506	2PC1815 (YG) -T	ST. TRANSISTOR		
Q2521	2SC5406-RL	SI. TRANSISTOR		
02523	IRF640	F. E. T.		
02526	DTC124ESA-T	DIGI. TRANSISTOR		
02541	2SD1408 (QY) -LB	SI. TRANSISTOR		
Q2551	DTA124ESA-T	DIGI. TRANSISTOR		
02552	DTC144ESA-T	DIGI. TRANSISTOR		
Q2581	2SA949 (Y) C1	SI. TRANSISTOR		
Q2582	DTC144ESA-T	DIGI. TRANSISTOR		
Q2901	2SK2148-C1	F. E. T.		
	EUNE 170 'U1	1. 6. 1.		
Q2955	2PC1815 (YG) -T	SI. TRANSISTOR		
Q2981	2SC2655 (Y) -T	SI. TRANSISTOR		
Q2982	2PC1815 (YG) -T	SI. TRANSISTOR		
		***************************************		
1 C				
IC2401	LA7841	I. C (MONQ-ANA)		
IC2501	TDA9151B	I. C (DEF-PRO)	•	
IC2541	UPC4558C	I. C (MONO-ANA)		
		I. G (MONO ANA)		
IC2901	MC44603P	I. C (MONO-ANA)		
IC2951	SE135N	I. C (HYBRID)		
IC2952	LM2940CT-12	I. C (MONO-ANA)		
1C2953	UPC2409AHF			
102954	KIA7808PI	I. C (MONO-ANA)		
,02334	MIM/OVOF!	1. C (MONO-ANA)		
1C2955-56	PQ05RF21	I.C(MONO-ANA)		
1C2957	K1A7808P!	I. C (MONO-ANA)		
OTHERS	<del></del>			<del></del>
FR2551	004017  _1004	C D	1.0 1"	
	ORHO17J-1ROM	FR	1 Ω 1₩ J	
FR2552	QRH017J-1R0M	FR	1Ω 1W J	
FR2553	QRZ0054-4R7M	FR	4.7 Ω 1/4W J	
	CE41433-001Z	BEADS CORE	, •	
K2402				

62

	Symbol No.	Part No.	Part Name	Description	Local
_	OTHERS				
	K2502-05	QQR0679-001	FERRITE BEADS		
	K2506	CE41433-001Z	BEADS CORE		*
	K2901-04	CE42050-001Z	CORE		*
	K2951	CE41433-001Z	BEADS CORE		*
	PC2521	TLP621 (B)	I. C (PH. COUPLER)		*
Δ	PC2901	TLP721F (D4-GR)	I. C (PH. COUPLER)		*
	RY2981	CESK028-002	RELAY		*
	TH2901	CEKP002-003	W. P. THERMISTOR		*
	VA2561	ERZV10V112C1	VARISTOR		*

#### CRT SOCKET PW BOARD ASS'Y (SMB-3001B-U2)

Symbol No.	Part No.	Part Name	Descripti	on		Loca
RESIST						
R3106	QRD14CJ-100SX	C R	10 Ω	1/4W	J	
R3119	QRG029J-391A	OM R	390 Ω	2W	J	
R3229-31.	QRG019J-823S	OM R	82k Ω	1 W	J	
CAPACI	TOR					
C3101	GETN1HM-106Z	E CAP.	10 µ F	50V	M	
C3102	QFLC1HK-103MZ	M CAP.	0.01 μ F	50V	K	
C3103	GETN1HM-335Z	E CAP.	3.3 μ F	50V	M	
C3104	QETN1CM-107Z	E CAP.	100 μ F	16V	M	
C3107	QETC2CM-106Z	E CAP.	10 µ F	160V	M	
C3110	QETC2CM-106Z	E CAP.	10 μ F	160V	M	
C3111	QETCOJM-107Z	E CAP.	100 μ F	6.3V	M	
C3118	QETN1HM-106Z	E CAP.	10 μ F	50V	М	
C3204-09	QCZ0120-104MZ	C CAP.	0.1 µ F	25V	Z	
C3210-12	QFH62EK-104MZ	MM CAP.	0.1μF	250V	K	
C3218	QETM2EM-336	E CAP.	33 µ F	250V	М	
C3219	QFZ0097-223M	M M CAP.	0. 022 µ F		ĸ	
C3221	GETC2EM-106Z	E CAP.	10 µ F	250V	M	
C3301	QETN1CM-107Z	E CAP.	100 µ F	16V	M	-
COIL		<del></del>				
L3101	CELP026-150Z	PEAKING COIL	15 µ H			
L3201-03	CELP026-4R7Z	PEAKING COIL	4. 7 μ H			
DIODE						
D3101-02	RH1S-T3	SI. DIODE				
D3103	MA165-T2	SI. DIODE				
D3151	1SS133-T2	SI. DIODE				
D3204-06	EU01N-T2	SI. DIODE				
D3301	1SS252-T2	SI. DIODE				
D3302-03	1SS133-T2	SI. DIODE				
TRANSI						
Q3101	2SA1309A (QR) -T	SI. TRANSISTOR				
Q3102-03	2SC3311A (QR) -T	SI. TRANSISTOR				
Q3104	2SA1309A (QR) -T	SI. TRANSISTOR				
Q3105	2SA1837	SI. TRANSISTOR				
03106	2SC4793	SI. TRANSISTOR				
Q3107	2SC3311A (QR) -T	SI. TRANSISTOR				
03108	2SC1906-T	SI. TRANSISTOR				
Q3301	2PA1015 (YG) -T	SI. TRANSISTOR				
Q3302	2SC2655 (Y) -T	SI. TRANSISTOR				
Q3303	2PA1015 (YG) -T	SI. TRANSISTOR				
I C IC3201-03	TDA61110	I. C (MONO-ANA)				
	IDVOLLIA	I. U (RUNU"ARA)				
OTHERS K3101-04	CE41492-001Z	CHOKE COIL				
R3109	QRH017J-561M	F R	560 Ω	1₩	J	

# AUDIO PW BOARD ASS'Y (SMB-6001B-U2)

Loca		rı	Descriptio	Part Name	Part No.	Symbol No.
					TOR	CAPACI
*	j	50V	0.68 μ F	TF CAP.	QFV71HJ-684MZ	C6101
*	M	25V	2200 µ F	E CAP.	QETM1EM-228	C6102-03
*	M	50V	ťμF	E CAP.	QETN1HM-105Z	C6105
*	M	16V	100 μ F	E CAP.	QETN1CM-107Z	C6106
*	J	50V	0.68 µ F	TF GAP,	QFV71HJ-684MZ	C6108
	J	50V	0.1 μ F	TF CAP.	QFV71HJ-104MZ	C6109-10
*	M	50V	1 μ F	E CAP.	QETN1HM-105Z	C6112
*	M	16V	100 µ F	E CAP.	QETN1CM-107Z	C6113
*	J	50V	0.68 μ F	TF CAP.	QFV71HJ-684MZ	C6115-16
	J	50V	0.1 µ F	TF CAP.	QFV71HJ-104MZ	C6117-18
*	j	50V	0. 01 μ F	M CAP.	QFLC1HJ-103MZ	C6121
						DIODE
*				ZENER DIODE	MTZJ27 (B) -T2	D6101-04
*				ZENER DIODE	MTZJ5. 1 (B) -T2	D6105
*				SI. DIODE	1SS133-T2	D6107
*				SI. DIODE	MA700-T2	D6108
*				SI. DIODE	1SS133-T2	D6112
*				SI. DIODE	1\$\$133-T2	D6115
					STOR	TRANSI
				DIGI. TRANSISTOR	DTC144ESA-T	Q6101
*				SI. TRANSISTOR	2PA1015 (YG) -T	Q6102
*				SI. TRANSISTOR	2PA1015 (YG) -T	Q6104
				DIGI. TRANSISTOR	DTC144ESA-T	Q6105
*				DIGI. TRANSISTOR	DTC323TS-T	Q6106-07
						1 C
*				I. C (MONO-ANA)	TDA2052V	IC6101-02
						OTHERS
*				BEADS CORE	CE41433-001Z	K6001-02

∆ Symbol No.	Part No.	Part Name	Descriptio	n		Loca
CAPACI						
C8003	QETN1HM-106Z	E CAP.	10 µ F	50V	Ħ	*
C8004	QCZ0120-104MZ	C CAP.	0.1 μ F	25V	Z	*
C8005	QETN1CM-476Z	E CAP.	47 µ F	16V	M	*
C8009	QETN1CM-476Z	E CAP.	47 µ F	16V	W	*
C8012	QETN1HM-106Z	E CAP.	10 µ F	50V	M	*
C8013-14	QETN1HM-105Z	E CAP.	1 μ F	50V	М	*
C8017-18	QETN1HM-106Z	E CAP.	10 μ F	50V	M	*
C8020-21	QCZ0120-104MZ	C CAP.	0.1μF	25V	Z	*
<b>∆</b> C8901	QFZ9040-474N	MF CAP.	0. 47 μ F			*
COIL						
L8001	CE41832-001	LEAD CORE				*
L8002-03	CELPO17-5R6Y	PEAKING COIL	5.6 µ H			*
L8010-11	CELP017-270Y	PEAKING COIL	27 µ H			*
L8012	CE41832-001	LEAD CORE				*
DIODE						
D8007	P1201	C. D. S.				*
D8008	1SS133-T2	SI. DIODE				*
D8009	SLR-342MG-T16	L.E.D. (GRN)	ECO			*
D8010	SPR-39MVWF	L. E. D.	POWER			*
D8011	1SS133-T2	SI. DIODE				*
D8012	SLR-342DU-T16	L. E. D. (ORG)	TIMER			*
D8013	SLR-342YY-T16	L. E. D. (YLW)	3D-PHONIC			*
D8014	MTZJ6.8(A)-T2	ZENER DIODE				*
D8015-16	MTZJ15 (C) -T2	ZENER DIODE				*
D8017	MTZJ6, 2(B)-T2	ZENER DIODE				*
D8018	MTZJ5. 1 (B) -T2	ZENER DIODE				*
TRANSI	STOR	***************************************				
Q8001	2PC1815 (YG) -T	SI. TRANSISTOR				*
08002	DTC144ES-T	DIGI. TRANSISTOR				*
08003-04	DTA144ESA-T	DIGI. TRANSISTOR				

Local	Description	Part Name	Part No.	Symbol No.	
*		IFR DETECT UNIT	GP1U281Q BA4558	I C IC8001 IC8002	_
				OTHERS	
*		FUSE CLIP	CEMG002-001Z		
. *		L. E. D. HOLDER	CM36548-001-E		
	3. 15A	CDS HOLDER	CM35921-A04-H		
	HEADPHONE	FUSE JACK	QMF51D2~3R15J1	F8901	Δ
*	V41N	JACK	QMS3007-C01	J8001	
*	LAIN	JACK	CEMN011-001 CEMN011-002	J8004	
*	RAIN	JACK	CEMNO11-002	J8005 J8006	
*		LINE FILTER	CELF012-001J7	LF8901	•
*		LINE FILTER	CELF012-001J7	LF8902	
	CH UP/DOWN	PUSH SWITCH	CESP001-001	S8001	ب
	MENU	PUSH SWITCH	CESP001-001	S8002	
*	MAIN POWER	PUSH SWITCH	QSP4K21-C01		Δ

Symbol No.	Part No.	Part Name	Description	on		Loca
CAPAC	TOR					
00101	QETN1CM-476Z	€ CAP.	47 µ F	16V	M	*
C0102	NCTO3CH-680AY	CHIP CAP.	68 p F		Н	*
C0103	GETNICM-476Z	E CAP.	47 μ F	16V	M	3
C0104	NCB21HK-473AY	CHIP CAP.	0.047 μ F	50V	K	
C0105	NCB21HK-223AY	CHIP CAP.	0.022 μ F	50V	K	1
C0106	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
CO107	QETN1CM-476Z	E CAP.	47 µ F	16V	M	
C0108	NCB21HK-473AY	CHIP CAP.	0.047 μ F	50V	K	
C0109	QETNICM-476Z	E CAP.	- 47 μ F	16V	M	
C0110	NCTO3CH-680AY	CHIP CAP.	68 p F	1600V	Н	
C0111	NCB21HK-473AY	CHIP CAP	0.047 μ F	50¥	K	
C0112-13	GETN1CM-476Z	E CAP.	47 μ F	16V	M	
C0112-13	NCB21HK-473AY	CHIP CAP.	0.047 µ F	50V	K	
C0116-25	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
C0116-23	QETN1CM-476Z	E CAP.	47 µ F	167	M	
CO126 CO127-28	NCTO3CH-220AY	CHIP CAP.	22 p F		Н	
C0129	QETN1HM-106Z	E CAP.	10 μ F	50V	M	
C0130	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
C0131	NCF21CZ-105AY	G CAP.	1 u F	16V	Z	
C0132	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
CO132	NCF21CZ-105AY	G CAP.	1 µ F	16V	Z	
	QETN1HM-106Z	E CAP.	10 µ F	50V	M	
C0134	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
C0135 C0136	NCF21CZ-105AY	C CAP.	1 µ F	16V	Z	
C0137-38	QETN1HM-106Z	E CAP.	10 µ F	50 <b>V</b>	M	
C0139	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
C0140	NCF21CZ-105AY	C CAP.	1 µ F	16V	Z	
C0140	NCB21HK-102AY	CHIP CAP.	1000 p F	50V	K	
	GETNICH-107Z	E CAP.	100 μ F	16V	M	
C0142		C CAP.	0.1 µ F	25V	Z	
C0143	NCF21EZ-104AY QETN1CM-227Z	E CAP.	220 µ F	167	M	
C0144 C0145	NCF21EZ-104AY	C CAP.	0.1μF	25V	Ž	
C0146	QETN1CM-107Z	E CAP.	100 µ F	16V	м	
C0147-53	NCF21EZ-104AY	C CAP.	0.1 µ F	25V	Z	
C0201	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	
	NCB21HK-223AY	CHIP CAP.	0. 022 u F	50V	K	
C0202	NCB21HK-182AY	CHIP CAP.	1800 p F	50V	K	
C0203 C0204	NCF21CZ-105AY	C CAP.	1 u F	167	Z	
	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	ĸ	
C0205 C0206	NCB21HK-223AY	CHIP CAP.	0. 022 μ F	50V	ĸ	
C0207	NCB21HK-182AY	CHIP CAP.	1800 p F	50V	K	
C0208	NCF21CZ-105AY	C CAP.	1 µ F	16V	Z	
C0208	QETN1CM-107Z	E CAP.	100 µ F	16V	М	
	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	
C0210	NCB21HK~182AY	CHIP CAP.	1800 p F	50V	K	
CO211	NCF21CZ-105AY	C CAP.	1μF	16V	ž	
C0212	NCB21HK-103AY	CHIP CAP	0.01 µ F	50V	ĸ	
C0213 C0214	NCB21HK-103A1	CHIP CAP.	0.022 µ F	50V	ĸ	

CO217		Part No.	Part Name	Description	
CO216	CAPAC	TOR			
CO216   NCF21CZ-105AY   C CAP.   1 μ F 16V Z			CHIP CAP.	1800 pF 50V K	
CO217   CO218   CO21	CO216	NCF21CZ-105AY	C CAP.		
00218-21 NCT030H-470AY CHIP GAP.  1		MCB21HK-222AV			
C0305					
C0305   QETNITCH—4782   E CAP   27	CU218-21	NG I USCH-4/QAY	CHIP GAP.	47 DF 1600V H	
COMMON   GETHINE-2282   E CAP   32.6   6.0   W   COMMON   COMMON	20000	05TU40U 4303			
CO405-06   QETNIHM-225Z   CAP.   C		GEIN1CM-4/62	E CAP.	47 µ F 16V №	
COUNTY	00407	UE IN 1 HW-2262	E CAP.	£ 500 M بر22	
C0405-06   GETNIHM-225Z   CAP.   2.2 \( \mu F \) 50V   M   C0407-10   MoGP21EZ-104AV   CAP.   0.1 \( \mu F \) 25V   Z   C0407-10   MoF21EZ-104AV   CAP.   0.1 \( \mu F \) 25V   Z   C0431   GETNIHM-226Z   E CAP.   2.2 \( \mu F \) 50V   M   C0432   GETNICM-477Z   E CAP.   470 \( \mu F \) 16V   M   C0433-34   MOB21KK-272AV   CHIP CAP.   2700 \( \mu F \) 50V   K   C0435-39   MOF21EZ-104AV   CAP.   0.1 \( \mu F \) 25V   Z   C0436-39   MOF21EZ-104AV   CAP.   0.1 \( \mu F \) 25V   Z   C0440   GETNIHM-225Z   E CAP.   2.2 \( \mu F \) 50V   M   C0436-39   MOF21EZ-104AV   CAP.   0.1 \( \mu F \) 25V   Z   C0452   C0456   MOF03CH-100AV   CHIP CAP.   0.01 \( \mu F \) 25V   Z   C0452   MOT03CH-100AV   CHIP CAP.   0.01 \( \mu F \) 25V   X   C0452   MOT03CH-100AV   CHIP CAP.   0.01 \( \mu F \) 50V   K   C0453   MOB21KK-473AV   CHIP CAP.   0.047 \( \mu F \) 50V   K   C0454   MOB21KK-473AV   CHIP CAP.   0.047 \( \mu F \) 50V   K   C0454   MOB21KK-473AV   CHIP CAP.   0.047 \( \mu F \) 50V   K   C0459   GETNICM-107Z   E CAP.   1 \( \mu F \) 150V   K   C0459   GETNICM-107Z   E CAP.   1.00 \( \mu F \) 150V   K   C0459   GETNICM-107Z   E CAP.   1.00 \( \mu F \) 150V   K   C0459   GETNICM-107Z   E CAP.   1.00 \( \mu F \) 150V   K   C0459   GETNICM-107Z   E CAP.   0.01 \( \mu F \) 150V   K   C0450   MOB21KK-473AV   CHIP CAP.   0.047 \( \mu F \) 50V   K   C0450   MOB21KK-100AV   CHIP CAP.   0.01 \( \mu F \) 160V   M   C0452   MOF21CZ-105AV   CER. CAP.   0.01 \( \mu F \) 160V   M   C0452   MOF21CZ-105AV   CER. CAP.   0.01 \( \mu F \) 160V   M   C0452   MOF21CZ-105AV   CER. CAP.   0.01 \( \mu F \) 160V   M   C0452   MOF21CZ-105AV   CER. CAP.   0.01 \( \mu F \) 160V   M   C0452   MOF21CZ-105AV   CER. CAP.   0.01 \( \mu F \) 160V   M   C05053   GETNIHM-106Z   E CAP.   0.01 \( \mu F \) 160V   M   C05053   GETNIHM-106Z   E CAP.   0.01 \( \mu F \) 160V   M   C05053   GETNIHM-106Z   E CAP.   0.01 \( \mu F \) 160V   M   C05053   GETNIHM-106Z   E CAP.   0.01 \( \mu F \) 160V   M   C05057   GETNIHM-106Z   E CAP.   0.00 \( \mu F \) 160V   M   C0505		QEINTOM-478Z	E CAP.	47 µF 16V M	
00407-10 NOF21EZ-104AY C CAP. 0.1	C0403-04	NCB21HK-272AY	CHIP CAP.	2700 pF 50V K	
00407-10 NOF21EZ-104AY C CAP. 0.1 μF 25V Z COM31 QETNIHM-2282 E CAP. 22 μF 50V M M COM33-34 NOR21HK-72RY CHIP CAP. 2700 pF 50V K M COM343-34 NOR21HK-72RY CAP. 2700 pF 50V K M COM343-34 NOR21HK-72RY CAP. 2.2 μF 50V M M COM343-34 NOR21HK-72RY CAP. 0.1 μF 25V Z COM440 NOF21EZ-104AY C CAP. 0.1 μF 25V Z COM440 NOF21EZ-104AY C CAP. 0.1 μF 25V Z COM440 NOF21EZ-104AY C CAP. 0.1 μF 25V Z COM450 NOF21EZ-104AY C CAP. 0.1 μF 16V Z COM545 NOR22HK-73AY CHIP CAP. 0.0 1 μF 50V K COM545 NOR22HK-73AY CHIP CAP. 0.0 1 μF 50V K COM546 QETNICM-107Z C CAP. 1 μF 16V Z COM547 NOF21EZ-105AY C CAP. 1 μF 16V Z COM548 NOR21HK-473AY CHIP CAP. 0.047 μF 50V K COM546 QETNICM-107Z C CAP. 1 μF 16V Z COM548 NOR21HK-473AY CHIP CAP. 0.047 μF 50V K COM546 QETNICM-107Z E CAP. 100 μF 16V M COM540 NOR21HK-473AY CHIP CAP. 0.047 μF 50V K COM546 QETNICM-107Z E CAP. 100 μF 16V M COM540 NOR21HK-103AY CHIP CAP. 0.01 μF 50V K COM540 NOR21HK-103AY CHIP CAP. 0.01 μF 16V Z COM541 NOR21HK-103AY CHIP CAP. 0.01 μF 16V Z COM541 NOR21HK-103AY CHIP CAP. 0.01 μF 16V Z COM541 NOR21HK-103AY CHIP CAP. 0.01 μF 16V M COM540 NOR21HK-103AY CHIP CAP. 0.01 μF 16V M COM540 NOF21C2-105AY C CAP. 10 μF 16V M COM540 NOF21C2-105AY C CAP. 10 μF 16V Z COM501-02 NOF21C2-105AY C CAP. 1 μF 16V Z COM501-02	CO405-06	GETN1HM-225Z	E CAP.	2 2 u F 50V N	
COMMINISTRY		MCE21E7-104AV		0 1 F 96V 7	
COM432   GETNICM-477Z   E CAP.   470 μ F 16V M COM433-34 NG221HK-272AV CHIP CAP.   2700 μ F 50V M COM435 OETN HM-225Z   E CAP.   2.2 μ F 50V M COM436-39 NGF21EZ-104AV C CAP.   0.1 μ F 25V Z COM440 OETN HM-225Z   E CAP.   2.2 μ F 50V M COM440 OETN HM-225Z   E CAP.   2.2 μ F 50V M COM440 OETN HM-225Z   E CAP.   2.2 μ F 50V M COM440 OETN HM-225Z   E CAP.   2.2 μ F 50V M COM451 NGF21CZ-105AY C GAP.   1 μ F 16V Z COM452 NGT03CH-100AY CHIP CAP.   10 μ F 1600V H COM453 NGB21HK-103AY CHIP CAP.   0.0 1 μ F 50V K COM454 NGB21HK-473AY CHIP CAP.   0.0 1 μ F 50V K COM454 NGB21HK-473AY CHIP CAP.   0.0 1 μ F 50V K COM457 NGF21CZ-105AY C CAP.   1 μ F 16V Z COM459 NGB21HK-473AY CHIP CAP.   0.0 1 μ F 50V K COM459 QETN1CM-107Z   E CAP.   100 μ F 16V M COM459 QETN1CM-107Z   E CAP.   100 μ F 16V M COM459 QETN1CM-107Z   E CAP.   100 μ F 16V M COM459 NGB21HK-473AY CHIP CAP.   0.0 1 μ F 50V K COM459 NGB21HK-103AY CHIP CAP.   0.0 1 μ F 50V K COM459 NGB21HK-103AY CHIP CAP.   0.0 1 μ F 16V M COM460 NGB21HK-103AY CHIP CAP.   0.0 1 μ F 16V M COM460 NGB21HK-103AY CHIP CAP.   0.0 1 μ F 16V M COM460 NGB21HK-103AY CHIP CAP.   0.0 1 μ F 16V M N COM460 NGB21HK-103AY CHIP CAP.   0.0 1 μ F 16V M N COM460 NGB21HK-103AY CHIP CAP.   0.0 1 μ F 16V M N COM460 NGB21HK-103AY CHIP CAP.   0.0 1 μ F 16V M N COM460 NGB21HK-103AY CHIP CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ F 16V Z COM460 NGCP1CZ-105AY CFR CAP.   0.0 1 μ			U UNF.	U. 1 H P 23V 2	
CO0433				22 μ F 50V N	
00433-34 NGB21HK-272AY CHIP CAP. 2700 pF 50V K 00436-39 NGF21EZ-104AY C CAP. 0.1 μF 50V M 00436-39 NGF21EZ-104AY C CAP. 0.1 μF 25V Z 00436 QETNIHM-225Z E CAP. 2.2 μF 50V M  00436 NGB21HK-103AY CHIP CAP. 10 pF 1600V H 00453 NGB21HK-473AY CHIP CAP. 0.01 μF 50V K 00453 NGB21HK-473AY CHIP CAP. 0.01 μF 50V K 00454 NGB21HK-473AY CHIP CAP. 0.01 μF 50V K 00455 NGB21HK-473AY CHIP CAP. 0.01 μF 50V K 00456 QETNICM-107Z E CAP. 100 μF 16V M 00457 NGF21CZ-105AY C CAP. 1 μF 16V Z 00458 NGB21HK-473AY CHIP CAP. 0.01 μF 50V K 00458 NGB21HK-473AY CHIP CAP. 0.01 μF 16V M 00459 QETNICM-107Z E CAP. 100 μF 16V M 00450 NGB21HK-103AY CHIP CAP. 0.01 μF 50V K 00451 NGF01CZ-105AY C CAP. 10 μF 16V M 00461 NGT03GH-100AY CHIP CAP. 10 μF 16V M 00461 NGT03GH-100AY CHIP CAP. 10 μF 16V M 00465 NGF21CZ-105AY CER CAP. 0.01 μF 16V Z 00501-02 NGF21CZ-105AY C CAP. 1 μF 16V Z 00501-02 NGF21CZ-105AY C CAP. 1 μF 16V Z 00501-02 NGF21CZ-105AY C CAP. 1 μF 16V Z 00501-04 NGT03GH-100AY CHIP CAP. 10 μF 16V M 00501-0507-08 QETNIHM-106Z E CAP. 10 μF 50V M 005051 QETNIHM-106Z E CAP. 10 μF 50V M 005051 NGF21CZ-105AY C CAP. 10 μF 1600V H 005051 NGF21CZ-105AY C CAP. 10 μF 50V M 005051 NGF21CZ-105AY C				470 μ F 16V M	
00435   QETN1HM-225Z   E CAP.   2.2 μ F 50V M   C0436-39   MCF216Z-104AY   C CAP.   0.1 μ F 25V Z   C0440   QETN1HM-225Z   E CAP.   2.2 μ F 50V M   C0451   MCF216Z-105AY   C CAP.   1 μ F 16V Z   C0452   MC103G1-100AY   CHIP CAP.   10 μ F 160V H   C0453   MCB21HK-103AY   CHIP CAP.   0.01 μ F 50V K   C0453   MCB21HK-473AY   CHIP CAP.   0.047 μ F 50V K   C0456   QETN1CM-107Z   E CAP.   10 μ F 16V Z   C0457   MC621CZ-105AY   C CAP.   1 μ F 16V Z   C0457   MC621HK-473AY   CHIP CAP.   0.047 μ F 50V K   C0459   QETN1CM-107Z   E CAP.   100 μ F 50V K   C0459   QETN1CM-107Z   E CAP.   100 μ F 50V K   C0459   QETN1CM-107Z   E CAP.   100 μ F 50V K   C0459   QETN1CM-107Z   E CAP.   100 μ F 50V K   C0450   MC621HK-103AY   CHIP CAP.   0.01 μ F 50V K   C0460   MC621HK-103AY   CHIP CAP.   0.01 μ F 50V K   C0460   MC621HK-100AY   CHIP CAP.   0.01 μ F 50V K   C0462   MCF21CZ-105AY   CER.CAP.   0.01 μ F 16V Z   C0465   MCF21CZ-105AY   CER.CAP.   0.01 μ F 16V Z   C0501-02   MCF21CZ-105AY   CER.CAP.   0.01 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 1600V H   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-106Z   E CAP.   10 μ F 50V M   C0505   QETN1HM-10	C0433-34	NCB21HK-272AY	CHIP CAP.		
CO0440   COETNIHM-225Z   E CAP.   C. CAP.   C. Law   F. SOV   M	CO435	OF TN 1HM-2257	F CAP		
CO4461   NCF21CZ-105AY   C CAP.   1 μ		NOFOICZ IDIAY			
CO451					
00452 NCT03CH-100AY CHIP CAP. 10 pF 1600V H CO453 NCB21HK-473AY CHIP CAP. 0.01 μF 50V K C0454 NCB21HK-473AY CHIP CAP. 0.01 μF 50V K C0455 NCB21HK-473AY CHIP CAP. 0.47 μF 50V K C0456 GETNICM-1072 E CAP. 100 μF 16V M C0457 NCF21C2-105AY CHIP CAP. 0.47 μF 50V K C0458 NCB21HK-473AY CHIP CAP. 0.47 μF 50V K C0458 NCB21HK-103AY CHIP CAP. 0.47 μF 50V K C0458 NCB21HK-103AY CHIP CAP. 0.01 μF 50V K C0451 NCT03CH-100AY CHIP CAP. 0.01 μF 16V M C0460 NCB21HK-103AY CHIP CAP. 0.01 μF 16V Z C0451 NCT03CH-100AY CHIP CAP. 0.01 μF 16V Z C0452 NCF21C2-105AY CER. CAP. 0.01 μF 16V Z C0454 NCF21C2-105AY CER. CAP. 0.01 μF 16V Z C050507-08 NCF21C2-105AY CHIP CAP. 10 μF 16V Z C050507-08 NCF11C2-105AY CHIP CAP. 10 μF 16V Z C05051 NCF21C2-105AY CHIP CAP. 10 μF 16V Z C05031 NCF21C2-105AY CHIP CAP. 10 μF 16V Z C05031 NCF21C2-105AY CHIP CAP. 10 μF 50V M C05051 NCF21C2-105AY CHIP CAP. 10 μF 16V Z C05031 NCF21C2-105AY CHIP CAP. 10 μF 16V Z C05031 NCF21C2-105AY CHIP CAP. 10 μF 50V M C05051 NCF21C2-105AY CHIP CAP. 10 μF 160V H C05051 NCF21C2-105AY CAP. 1 μF 16V Z C05051 NCF21C2-105AY CHIP CAP. 10 μF 50V M C05051 NCF21C2-105AY CHIP CAP. 2000 μF 5	C0440	QETN1HM-225Z	E CAP.	2.2μF 50V M	
C0452   NCT03CH-100AY   CHIP CAP	CO451	NCF21CZ-105AY	C CAP.	1 # F 16V 7	
CO453		NCTO3CH-100AY			
C0454 NCB21HK-473AY CHIP CAP. 0 047 μF 500 K C0456 QETNICM-107Z E CAP. 100 μF 16V M C0457 NGF21CZ-105AY C CAP. 1 μF 15V Z C0458 NCB21HK-473AY CHIP CAP. 0 047 μF 50V K C0458 NCB21HK-473AY CHIP CAP. 100 μF 50V K C0460 NCB21HK-103AY CHIP CAP. 100 μF 1600V H C0461 NCT03CH-100AY CHIP CAP. 10 μF 1600V H C0461 NCT03CH-100AY CER CAP. 10 μF 16V Z C0465 NCF21CZ-105AY CER CAP. 0 01 μF 16V Z C0465 NCF21CZ-105AY CER CAP. 0 01 μF 16V Z C050501-02 NCF21CZ-105AY CER CAP. 10 μF 16V Z C050503-04 NCT03CH-100AY CHIP CAP. 10 μF 16V Z C050503 O4 NCT03CH-100AY CHIP CAP. 10 μF 16V Z C050503 O4 NCT03CH-100AY CHIP CAP. 10 μF 16V Z C050503 O4 NCT03CH-100AY CHIP CAP. 10 μF 50V M C05050 QETNIHM-106Z E CAP. 10 μF 50V M C0531 NCF21CZ-105AY C CAP. 10 μF 50V M C0531 NCF21CZ-105AY CHIP CAP. 10 μF 50V M C0531 NCF21CZ-105AY C CAP. 10 μF 50V M C0533 QETNIHM-106Z E CAP. 10 μF 50V M C05353 QETNIHM-106Z E CAP. 10 μF 50V M C05551 NCF21CZ-105AY C CAP. 10 μF 50V M C05553 NCT03CH-100AY CHIP CAP. 10 μF 160V H C05553 NCT03CH-100AY CHIP CAP. 10 μF 160V H C05553 NCT03CH-100AY CHIP CAP. 10 μF 50V M C05555 NCT03CH-100AY CHIP CAP. 1			OHID OLD		
CO456				0.01 μ F 50V K	
CO456			CHIP CAP.		
CO457	CO456	QETN1CM-1072	E CAP		
CO458			C CAD	15 100 7	
COURT   COU			O UAF.	1μr 10V Z	
COMPANS   COM				ປ.047μF 50V K	
DOMES   NOT   DOMAY	C0459	GETNICM-107Z	E CAP.	100 μ F 16V M	
DOMES   NOT   DOMAY	C0460	NCB21HK-103AY	CHIP CAP	0.01 F 50V F	
D0462   NGF21CZ-105AY   CER. CAP.   O. 01 μF   16V   Z   D0501-02   NGF21CZ-105AY   CER. CAP.   O. 01 μF   16V   Z   D0501-02   NGF21CZ-105AY   CAP.   O. 01 μF   16V   Z   D0501-04   NGT03CH-100AY   CHIP CAP.   O. 01 μF   16V   Z   D0503-04   NGT03CH-100AY   CHIP CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0507-08   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   D0707-05   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   GETN1HM-106Z   GETN1HM-106Z   E CAP.   O. 01 μF   50V   M   GETN1HM-106Z   GETN1HM-106Z   GETN1HM-106Z   GETN1HM-106Z   GETN1HM-106Z   GETN1HM-106Z   GETN1HM-106Z   GETN1HM-106Z   GETN1HM-106Z			CUID CAD		
DO485					
1				0.01μF 16V Z	
DOSD1-02   NOF21CZ-105AY   C CAP.			CER, CAP.	0.01 µF 16V 7	
100013-04	00501-02			1 / F 16V 7	
DOSOS   QETN1HM-106Z   E CAP   10 μF   500 W   DOSOSO7-08   QETN1HM-106Z   E CAP   10 μF   500 W   DOSOSO7-08   QETN1HM-106Z   E CAP   10 μF   500 W   DOSOSO7-08   QETN1HM-106Z   E CAP   10 μF   500 W   DOSOSOSOSOSOSOSOSOSOSOSOSOSOSOSOSOSOSOS				10 - 6 40000 11	
DOSOT-08   QETN1HM-106Z   E CAP.			OFF CAP.		
10   1   10   10   10   10   10   10				10 µ F 50V M	
20532	00507-08	GETN1HM-106Z	E CAP.	10μF 50V M	
20532	00531	NCE2107-1054V	C CAP	15 1eu 7	
20536					
100   100			CHIP GAP.		
1				10 μ F 50V M	
20553				1 "F 16V 7	
20555   GEFN1HM-106Z   E CAP   10 μF   500 W   10 μF   500				10 - 5 10007 11	
20556   OETNICM-476Z   E CAP   AT μF 16V M   DETNICM-476Z   DETNICM-4			UNIP DAP.	TO PE 1000V H	
20556			E CAP.	10 µ F 50V M	
10			E CAP.	47 μ F 16V M	
20603-04   OETHICM-476Z   E CAP   47 μF 16V M	10001	UEINIMM-106Z	E UAP.	10 μ F 50V M	
20603-04   OETH   CM   -476Z   E CAP   47 μ F   16V M   20701-05   NGB21HK-222AY   CHIP CAP   2200 p F   50V K				10 μ F 50V M	
CO   L   CO   CO   CO   CO   CO   CO	0603-04	QETN1CM-476Z		47 µ F 16V ¥	
0.101-04   CE40344-4R7YL   INDUCTOR   4.7 μ H   1.0 μ				2200 p.F 50V K	
10101-04   CE40344-4R7YL   INDUCTOR   4.7 μ H   1.0701-05   CE40344-100YL   INDUCTOR   10 μ H   10	CO. L.			<del></del>	
.0701-05 CE40344-100YL INDUCTOR 10		CE40344-4R7YI	INDUCTOR	47,44	
D I O D E  D I O D E				10	
D I O D E  10103				10 <i>µ</i> n	
10103	0/06	UE41433-001Z	BEADS CORE		
MA3062 (M) - X	DIODE				
M2021	00103		ZENER DIODE		
1045    Ma141WK-X   SI_DIODE	00201	MA3062(M)-X			
10452					
10453					
10454					
10454	00453	MA141WK-X	SI. DIODE		
MA3150 (M) - X   ZENER DIODE					
MA3062-X   ZENER DIODE			TENER DIODE		
00532 MA3150 (M) -X ZENER DIODE 00552 MA3150 (M) -X ZENER DIODE  TRANSISTOR 10302 DIC144EK-X DIGI.TRANSISTOR 10451 DIC231K-X DIGI.TRANSISTOR 10453 DTC144EK-X DIGI.TRANSISTOR 10501 25A1162 (YG) -X SI.TRANSISTOR					
D0552 MA3150 (M) -X ZENER D10DE  TRANSISTOR D0302 DTC144EK-X D1G1. TRANSISTOR D0451 DTC323TK-X D1G1. TRANSISTOR D10453 DTC144EK-X D1G1. TRANSISTOR D10501 2SA1162 (YG) -X S1. TRANSISTOR	JU503	mA3062~X	ZENER DIODE		
DOS52   MA3150 (M) - X   ZENER DIODE	00532	MA3150 (M) -X	ZENER DIODE		
10302 DTC144EK-X DIGI.TRANSISTOR 10451-52 DTC323TK-X DIGI.TRANSISTOR 10453 DTC144EK-X DIGI.TRANSISTOR 10501 28A1162 (YG) – X SI.TRANSISTOR					
10302 DTC144EK-X DIGI.TRANSISTOR 10451-52 DTC323TK-X DIGI.TRANSISTOR 10453 DTC144EK-X DIGI.TRANSISTOR 10501 28A1162 (YG) – X SI.TRANSISTOR	TDANCI	STOR			
10451 -52 DTC323TK-X DIGI.TRANSISTÖR 10453 DTC144EK-X DIGI.TRANSISTOR 10501 25A1162 ('G) - X SI.TRANSISTOR			DIGI. TRANSISTOR		
0453 DTC144EK-X DIGI. TRANSISTOR 0501 2SA1162 (YG) -X SI. TRANSISTOR					
00501 2SA1162 (YG) -X S1. TRANSISTOR			DIGI. IRANGIGIUK		
	0501	2SA1162 (YG) -X	SI. TRANSISTOR		
NOSOZ-O3 DTC323TK-X DIGI.TRANSISTOR	0502-03	DTC323TK-X	DIGI. TRANSISTOR		
		EJATTUZ (10) TA	31. IRAN3131UK		
10532 DTC323TK-X DIGI. TRANSISTOR					
10551 2SA1162 (YG) -X S1. TRANSISTOR	10551	2SA1162 (YG) -X	SI. TRANSISTOR		
10553 DTC323TK-X DIGH. TRANSISTOR	0553	DTC323TK-X	DIG! TRANSISTOR		

∆ Symbol No.	Part No.	Part Name	Description	Local
1 C				
IC0101	SAA7367T-X	1. C (DIGI-MOS)		
100102	TMS57052BFT	I.C(M)		
IC0103	LC32464M~80X	I. C (D-RAM)		
IC0104-05	PCM1717E-X	I. C (MONO-ANA)		
100111	BA4558F-X	1. C (MONO-ANA)		
ICO201-02	UPC324G2-X	I. C (MONO-ANA)		
100301	TC4052BF-X	I. C (DIGI-MOS)		
IC0401	TDA7315D	I. C (DIGI-OTHER)		
100431	TDA7315D	I. C (DIGI-OTHER)		
100451-52	BA4558F-X	1. C (MONO-ANA)		
100501	BA4558F-X	I. C (MONO-ANA)		
100551	BA4558F-X	I. C (MONO-ANA)		
OTHERS				
EF0101-05	CE42482-103Y	EM! FILTER		*
J0001	CEMN036-004	PIN JACK		
J0002	CEMN061-001	PIN JACK		
K0101-02	CE42681-001Y	BEADS CORE		
K0104-07	CE42681-001Y	BEADS CORE		
K0108	CE41433-001Z	BEADS CORE		*
X0101	NAX0001-001X	CRYSTAL		

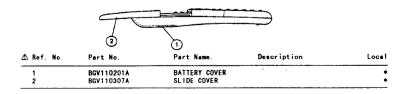
AV TERMINAL PV	V BOARD ASS'Y	(SMB0J001B-U2)
----------------	---------------	----------------

Local		n	Descriptio	Part Name	Part No.	Symbol No.
*	M	16V 16V	10 μ F 47 μ F	E CAP. E CAP.	TOR QEKC1CM-106GMZ QEKC1CM-476MZ	CAPACI C0102-04 C0301
						COIL
*			5.6 $\mu$ H	PEAKING COIL	CELP017-5R6Y	L0101-04
*				LEAD CORE	CE41832-001	L0105
*			5.6 μ H	PEAKING COIL	CELP017-5R6Y	L0201-04
*				LEAD CORE	CE41832-001	L0205
			5.6 μ H	PEAKING COIL	CELP017-5R6Y	L0301-02
*				LEAD CORE	CE41832-001	L0303
				SCART CONNECTOR	CE40529-006	OTHERS J0001-03

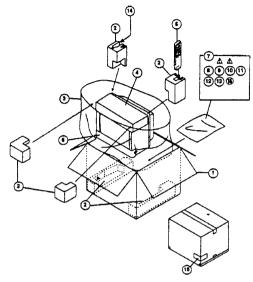
#### AUTO ASPECT MODULE PW BOARD ASS'Y (SJF0W001A(U))

△ Symbol No.	Part No.	Part	Name	Description	Local
OTHERS	SJF0W001A(U)	OTUA	ASPECT MODU	LE	

# REMOTE CONTROL UNIT PARTS LIST (RM-C793-1E) [2812/327]



# **PACKING**



# **PACKING PARTS LIST**

MZ2EP(A)	AV-28WZ2EN(AVAV-28V Description	Part Name	Part No.	∆ Ref.No.
*		PACKING CASE	AEN1002-A44-E	1
*		PACKING CUSHION	CP11547-00B-E	2
*		SET COVER	AEM1004-A06-E	3
*		CUSHION SHEET	CP40193-009-E	4
*		CUSHION SHEET	CP40193-010-E	5
*		REMOCON UNIT	RM-C793-1E	6
*		POLY BAG	AEM3021-001-E	7
*		ADDRESS CARD	BT-20066A-E	8
*		INST. BOOK	CQ40353-001-E	<b>∆</b> 9
*		INST. BOOK	CQ40352-001-E	△ 10
*		WARRANTY CARD	BT-54008-1E	11
*		DEC. SHEET	CM22966-008-E	12
*		WARNING SHEET	LCT0065-001A-U	13
*		RF CABLE	AEEAK001-200	14
*		EURO LABEL	AEM1038-058-E	15
*	AV-28WZ2EN (A) ONLY	S. DIAGRAM	2832WZ2ENA-HSAE	16
NZ2EP(A)	AVSZWZZEN(AVAVSZY			
*		PACKING CASE	AEM1002-A43-E	4
*		PACKING CUSHION	CP11549-00B-E	,
*		SET COVER	AEM1004-A07-E	3

				AVSZWZZEN(AVAV-3ZWZ	2EP(A
	1	AFM1002-A43-E	PACKING CASE		1
	2	CP11549-00B-E	PACKING CUSHION		
	3	AEM1004-A07-E	SET COVER		
	4	AEM3022-003-E	CUSHION SHEET		
	5	CP40193-010-E	CUSHION SHEET		
	6	RM-C793-1E	REMOCON UNIT		
	ž	AEM3021-001-E	POLY BAG		
	8	BT-20066A-E	ADDRESS CARD		1
Δ	9	CQ40353-001-E	INST. BOOK		
$\overline{\Delta}$	10	CQ40352-001-E	INST. BOOK		
4	11	BT-54008-1E	WARRANTY CARD		,
	12	CM22966-014-E	DEC. SHEET		
	13	I CT0065-001A-U	WARNING SHEET		
	14	AEEAK001-200	RF CABLE		
	15	AEM1038-060-E	EURO LABEL		,
	16	2832WZZENA-HSAE	S. DIAGRAM	AV-32WZ2EN(A) ONLY	

AV-32WZ2EP AV-28WZ2EN

AV-32WZ2EN AV-28WZ2EP

#### AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP

# [ MAIN PARTS LOCATION AND ALIGNMENTS LOCATION]

# AV-32WZ2EN(A)/AV-32WZ2EP(A) AV-28WZ2EN(A)/AV-28WZ2EP(A) STANDARD CIRCUIT DIAGRAM

#### ■ NOTE ON USING CIRCUIT DIAGRAMS 1. SAFETY

The components identified by the∆ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

#### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal (2)Setting positions of PAL Colour bar signal

each knob/button and

variable resistor :Original setting position

when shipped

(3)Internal resistance of tester

DC 20k Q /V

⇒ 20uS/div (4)Oscilloscope sweeping time ⇒ 5mS/div

⇒ Sweeping time is

specified :All DC voltage values

(5)Voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

#### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

oin the PW board :R1209--R209

### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

■Resistance value

No unit :[Ω]: Κ :fKΩ1 М :[M Ω]

■Rated allowable power

No indication :1/6fW1

Others :As specified

Type

FR

No indication :Carbon resistor OME Oxide metal film resistor MER :Metal film resistor MPE :Metal plate resistor UNFR .Uninflammble resistor

Fusible resistor \*Composition resistor 1/2 IWI is specified as 1/2S or Comp. (2)Capacitors

■Capacitance value

1 or higher [pF] less than 1 :fuF1

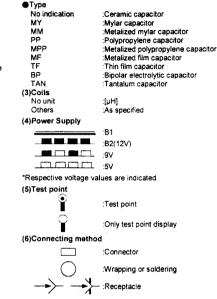
Withstand voltage

No indication :DC50IVI

Others DC withstand voltage [V]

\*Electrolytic Capacitors

47/50[Example]:Capacitance value [µF]/withstand voltage[V]



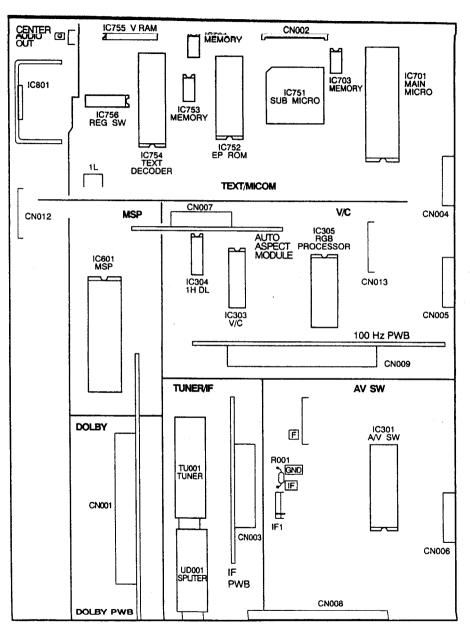
#### (7)Ground symbol

- :LIVE side ground
- $\perp$ :ISOLATED(NEUTRAL) side ground
- :EARTH ground
- :DIGITAL ground

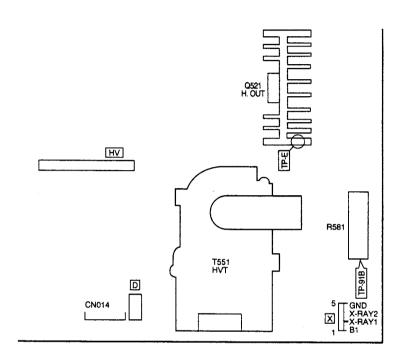
### **5.NOTE FOR REPAIRING SERVICE**

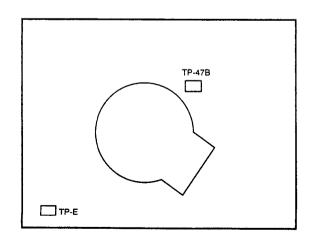
This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (1) side GND and the ISOLATED(NEUTRAL): (4) side GND. Therefore, care must be taken for the following points.

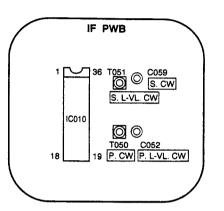
- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.
- Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.



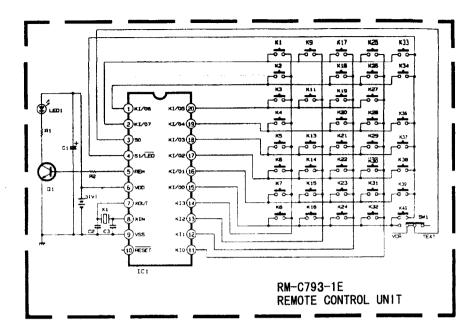
Dec. 1997







#### [ REMOTE CONTROL UNIT CIRCUIT DIAGRAM ]

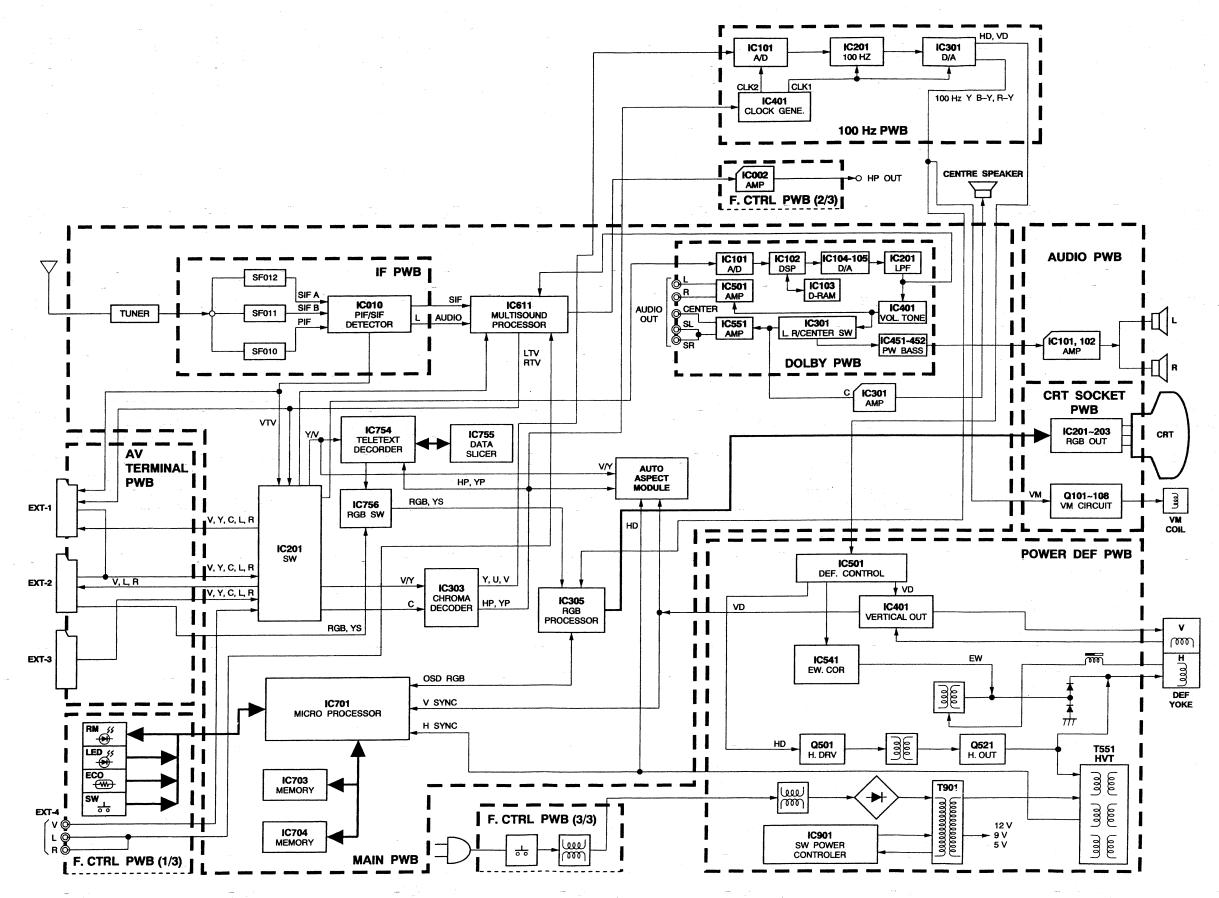


#### **■KEY FUNCTION**

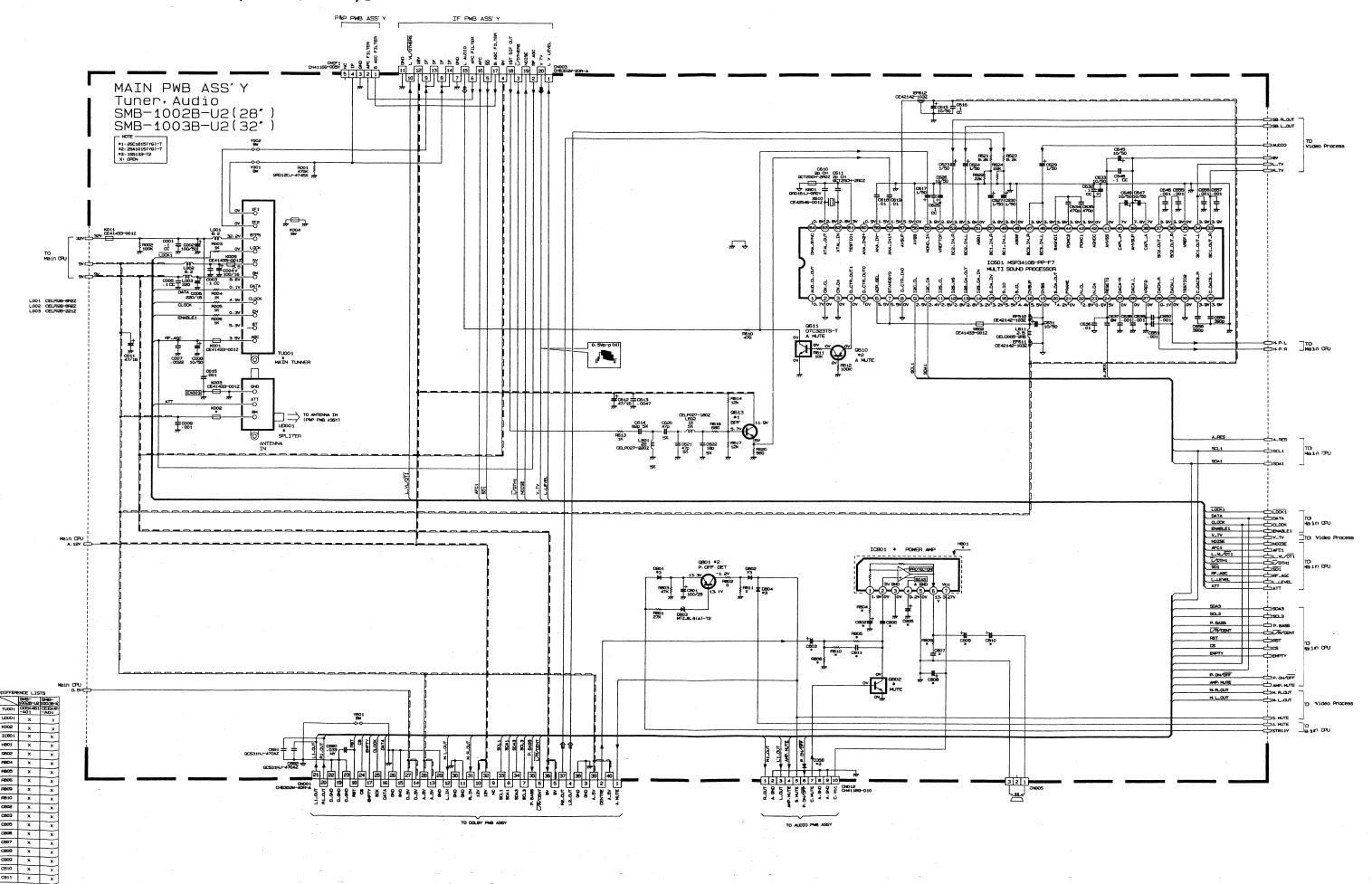
No.	Key Name	No.	Key Name	No.	Key	Name	No.	Key	Name
1	1	14	3D • • • •	-	MODE	(TEXT)	29	CANCEL	(TEXT)
2	2	15	PBASS	22	REW 4	◀ (VCR)	29	STOP	(VCR)
3	3	16	PIP	1 22	SIZE	(TEXT)	30	INDEX	(TEXT)
4	4	17	•	23	FF ы	(VCR)	30	(1)	(VCR)
5	5	40	REVEAL (TEXT)	24	SUB PAC	SE(TEXT)	31	<b>A</b>	
6	6	18	PLAY (VCR)	24	PV	(VCR)	32	4	
7	7	19	TV	25	泉		33	•	
8	8	20	MENU/OK	00	STORE	(TEXT)	34	<b>•</b>	
9	9	-	HOLD (TEXT)	26		(VCR)	36	FREEZE	
11	o	21	P A (VCR)	27	1.17		37	MULTI	
13	ZOOM	1		28	<u> </u>		38	SWAP	
		Ш	1	ш	1		39	SUB-P V	
							40	SUB-P A	

No.51239C

# [ BLOCK DIAGRAM ]



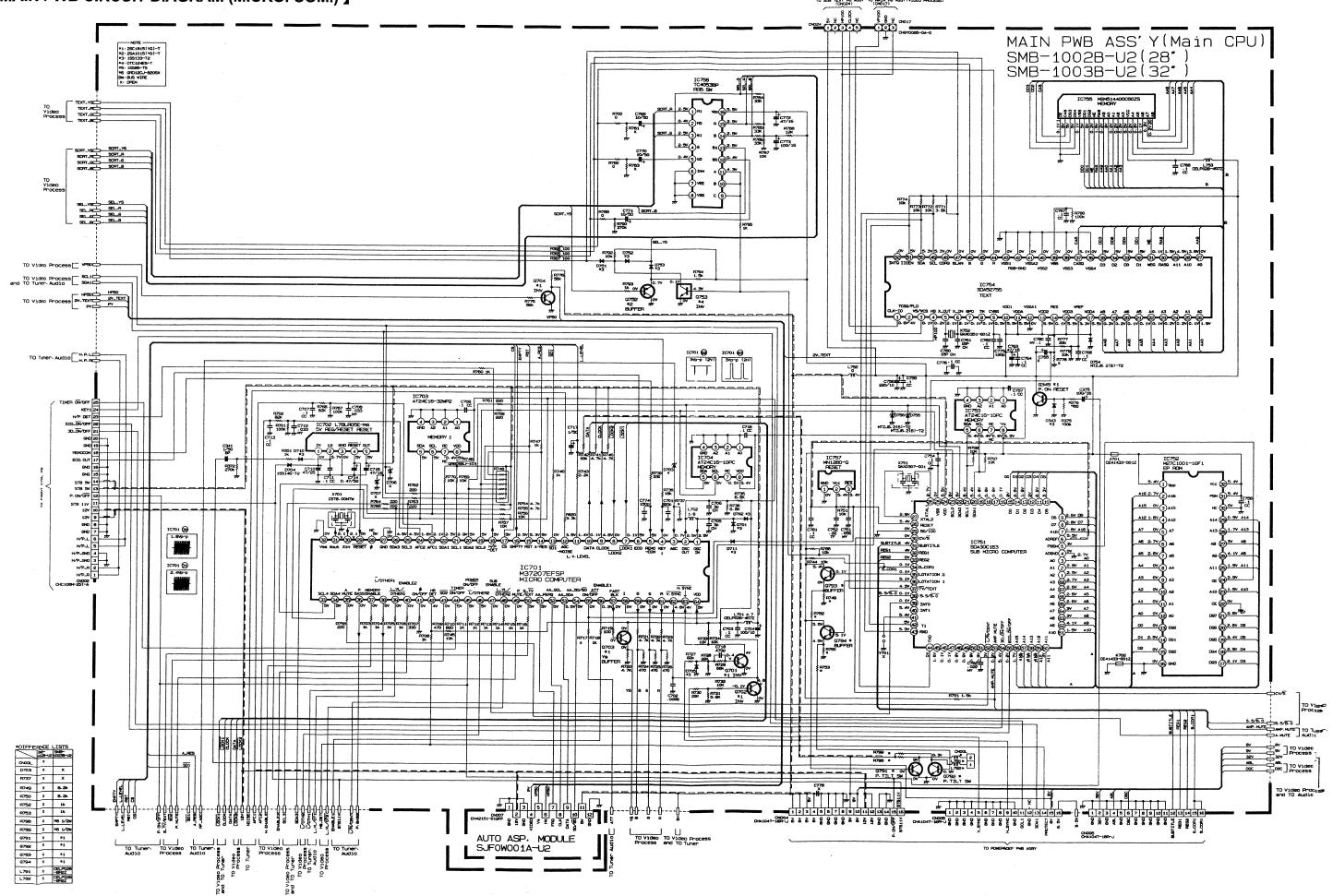
# [ MAIN PWB CIRCUIT DIAGRAM (TUNER, AUDIO)]

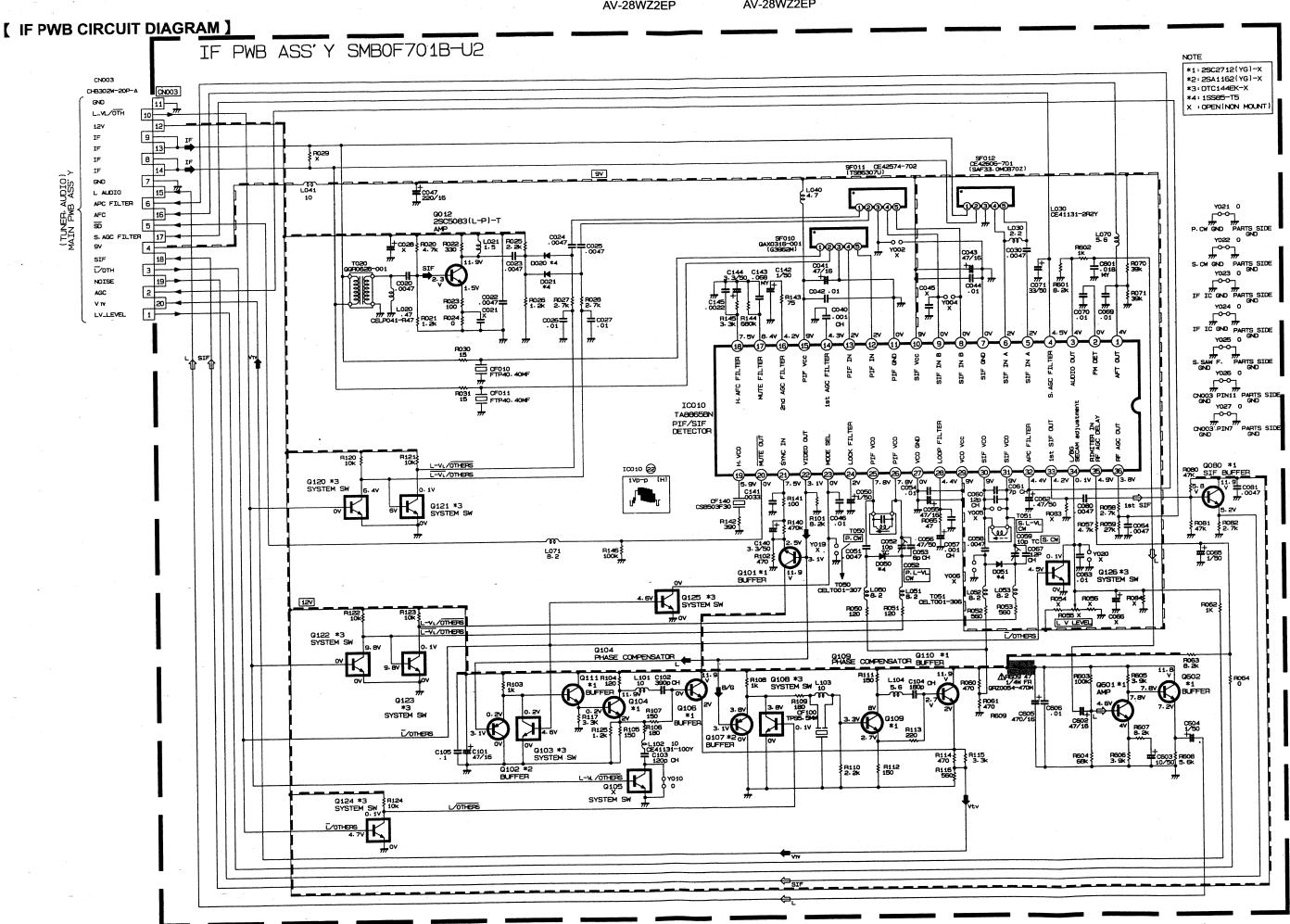


AV-32WZ2EN AV-32WZ2EP AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EN AV-28WZ2EP AV-28WZ2EP [ MAIN PWB CIRCUIT DIAGRAM (Video Process) ] X 1 8 1 8 1 8 1 8 1 MAIN PWB ASS'Y VIDEO PROCESS SMB-1002B-U2(28° SMB-1003B-U2(32') 5-5/6-0 PY 1 4 4 1H) 90A1 1 50.1 2 3 3 60 6 4 77 77 13.1N 5 77 77 13.1N 8 70.1N 8 7 ONE CONTROL OF CONTROL 0-940-p (f-2. 849 -p/24 1 CZ 0.740-p (H) C3322 X311 0E40749-001Z X312 0E40669-001Z IC303 TDA9141/N2 CHROMA\_DECODER OND 18-CNOSS CH650-4N-CST-4 CNOSS (CS62) 0.8WP-P 0343 \*1 Y5 MIX R354 IK 1C303 (3 IC303 (3 0.7Wp-p(H) 1C303 (A) LEXT-Y-TOTL LEXT-Y-TIN LEXT-Y-TIN LEXT-Y-TIN LEXT-Y-TIN LEXT-Y-TOTL 230/15 C302 0.7Vp-p1i RECORD REGION OF THE PROPERTY CN020 (C343) 1 TEXT\_B\_IN 2 TEXT\_B\_OUT 1 € SVD--p(SH) AV TERMINAL PWB ASS'Y 1/1 08 1/90 2.94 0303 2.34 0303 \$2.34 0303 R218 R216 33k 23k C205 F383 220 0.7Vp-p1 2.3V BUFFER

2.3V BUFFER R219 R220 82k 390 3.3% C2002
3.3% C2002
Ress 22x 77 - 0
2002
N/T DTC323TS-T1
AUTE 0.845-b(SH) 0V 0208 \*2 A MUTE 1C305 @ 1.0350 1. 1VID-ID [H] 0352 0352 13.49 83 1472.5.2(8)-72 13.3750 550 777 R366 R367 3.9k 3.9k 0342 DTC:144ES-T MUTE OV -фнедет -фас -фас -фр. мите R248 1/90 ## R251 R253 C213 33k 33k 1/50 2. SV 0302 RG30 100 2. SV BUFFER R254 82k R258 77 390 R015 1.92 0301 1.92 BUFFER 500-500-02 10038-02 K014 CE41433 CE41433 -001Z -001Z No.51239C 2-11 2-12

# [ MAIN PWB CIRCUIT DIAGRAM (MICRO. COM.)]

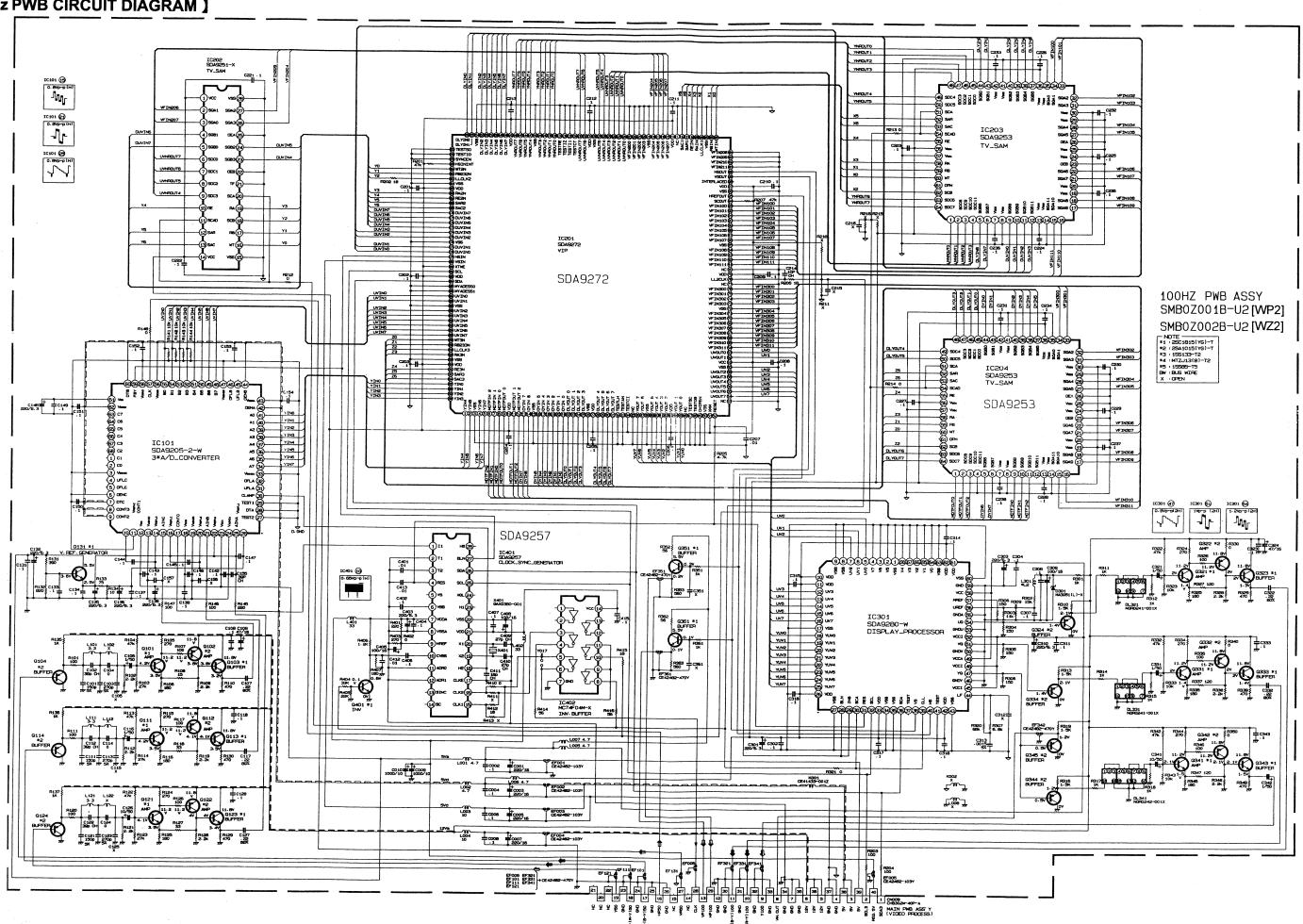




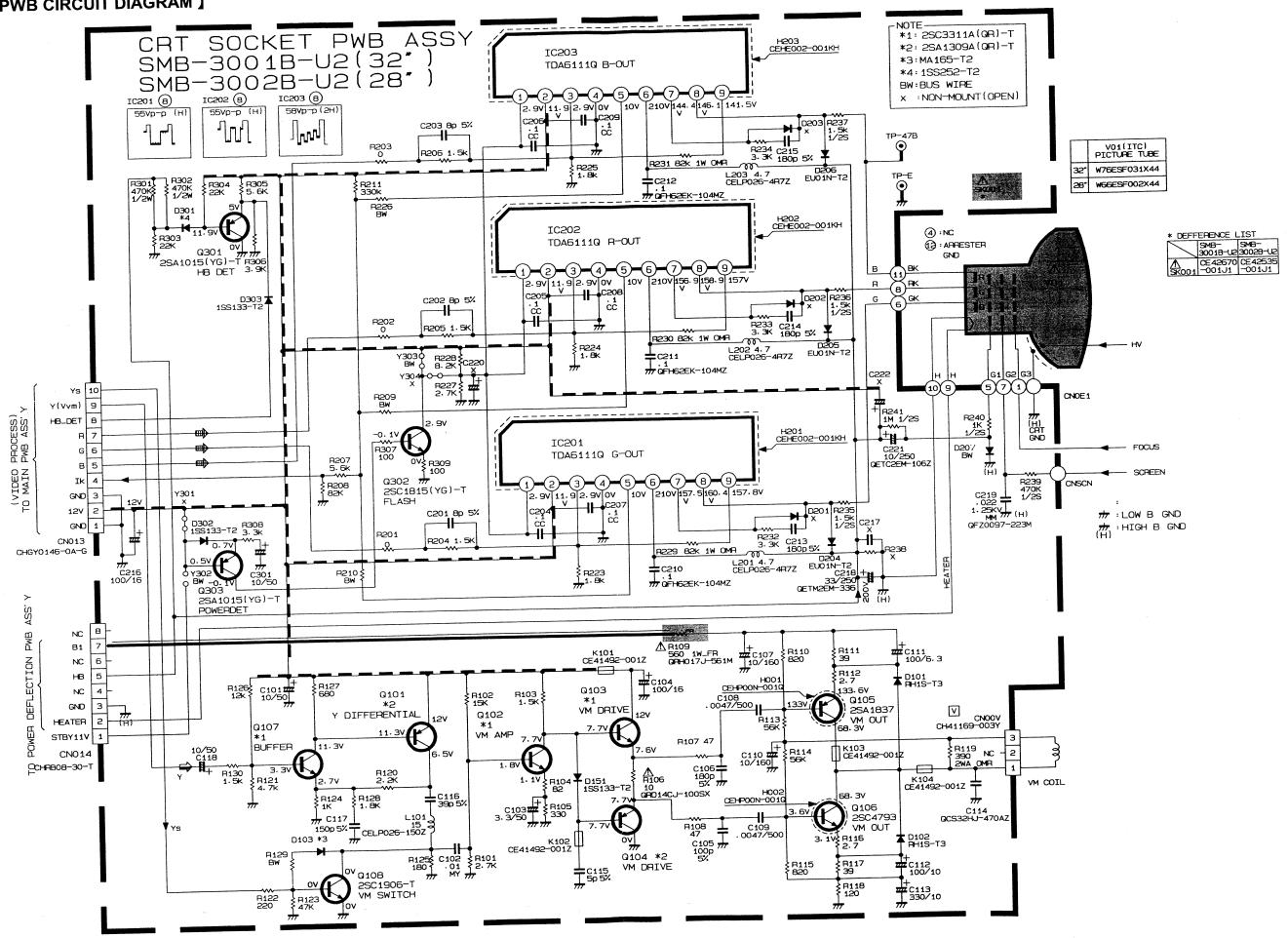
2-16

AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP

# [ 100Hz PWB CIRCUIT DIAGRAM ]

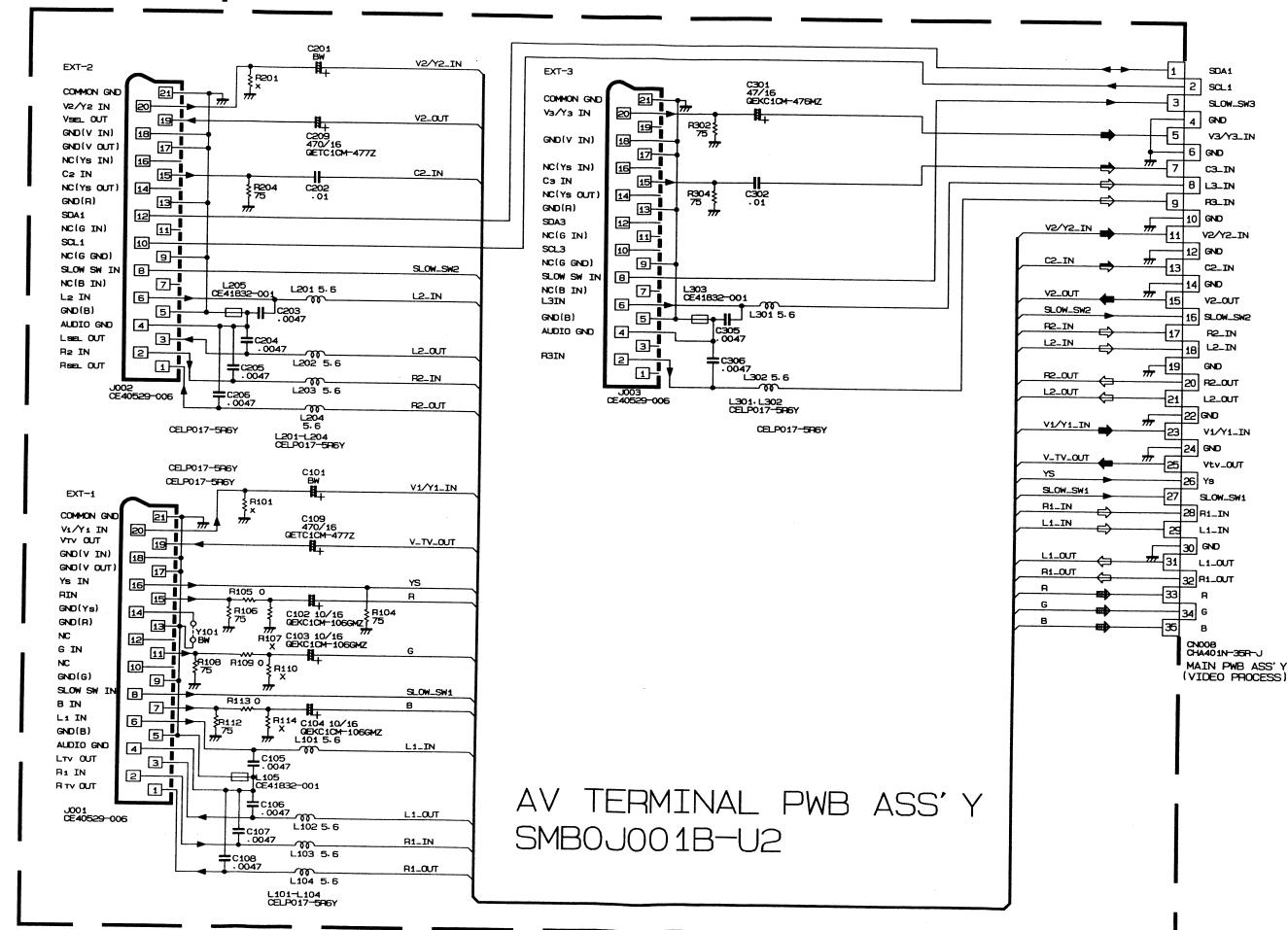


# [ CRT SKT PWB CIRCUIT DIAGRAM]

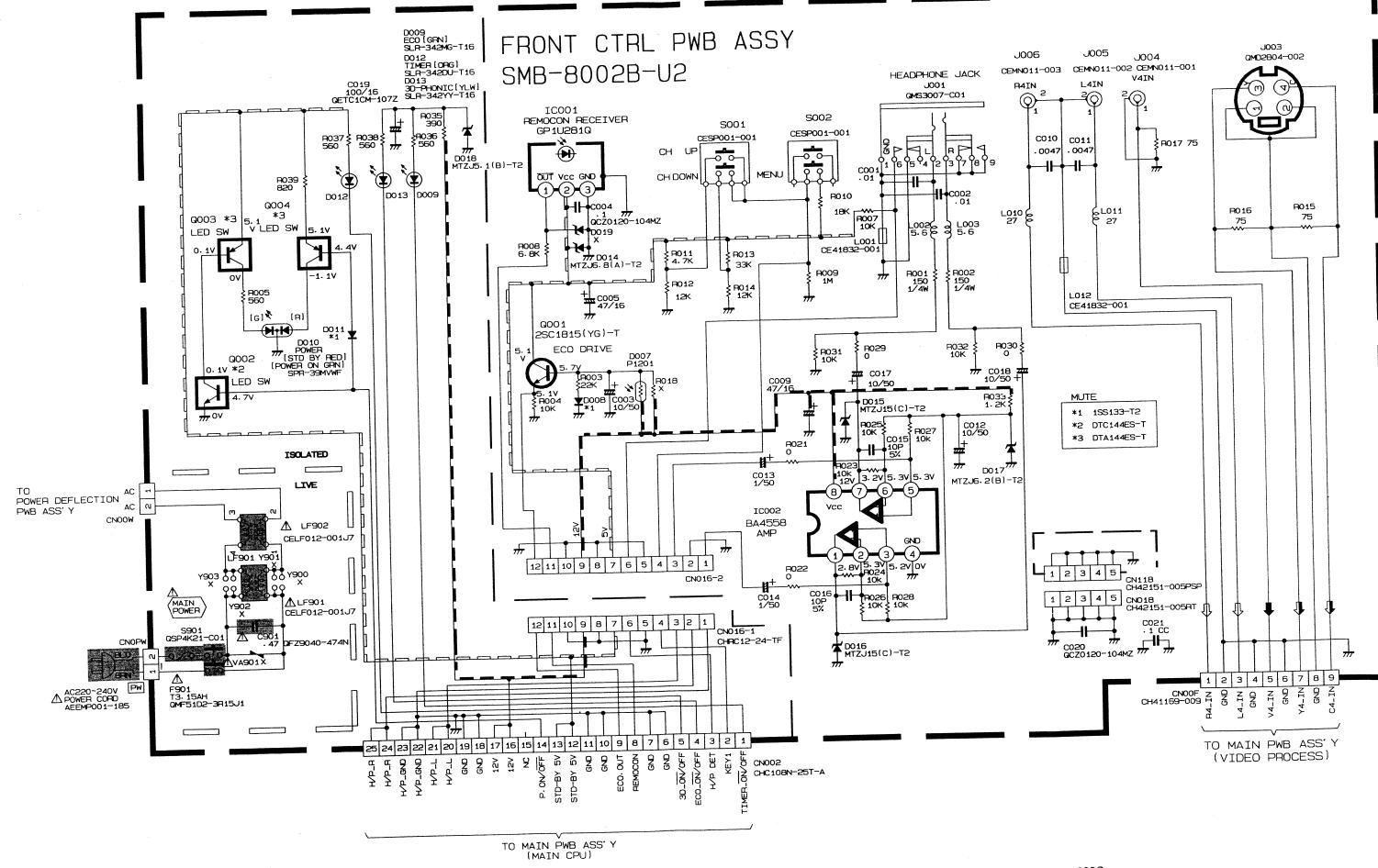


2-20

# [ AV TERMINAL PWB CIRCUIT DIAGRAM ]

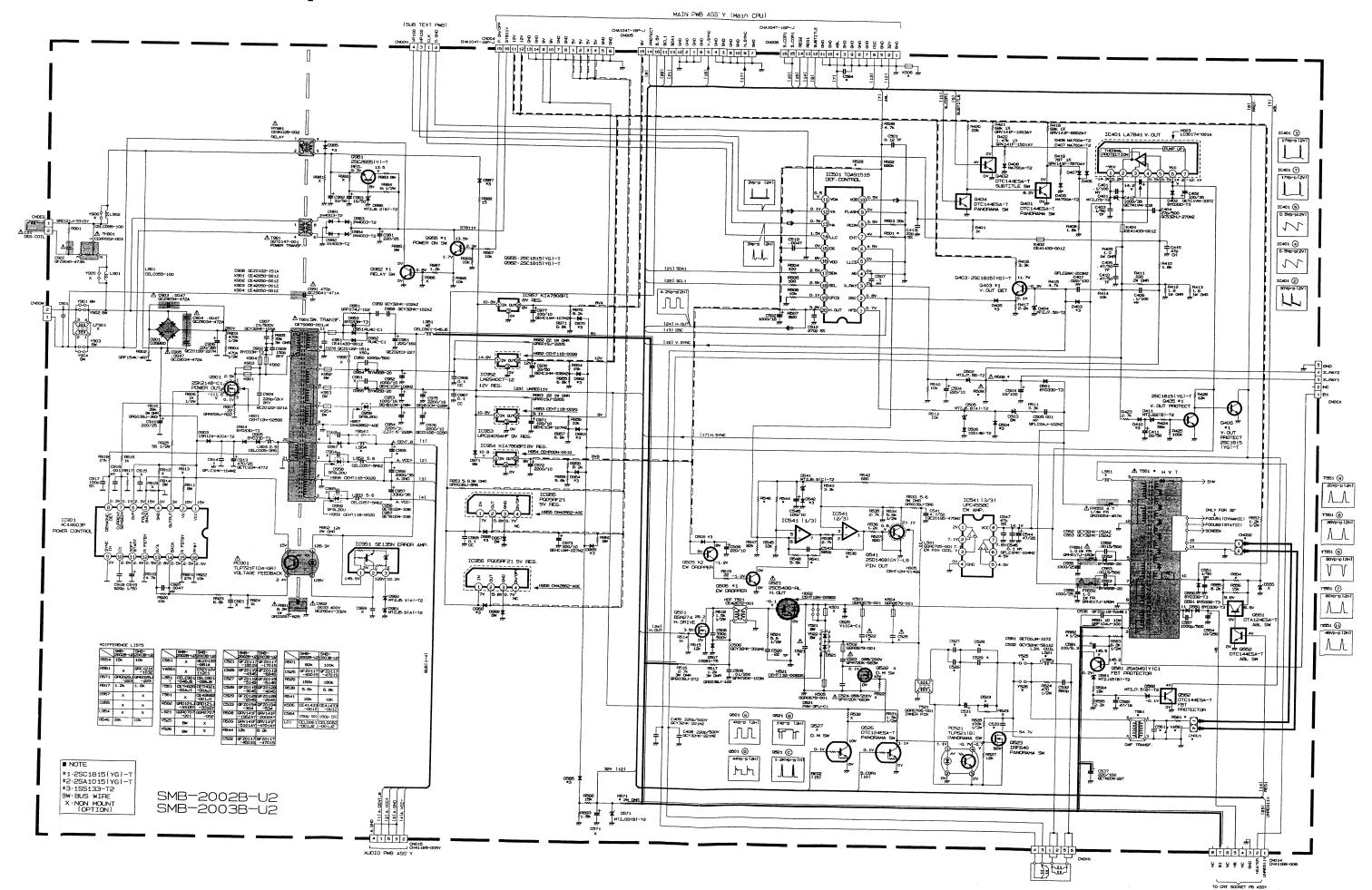


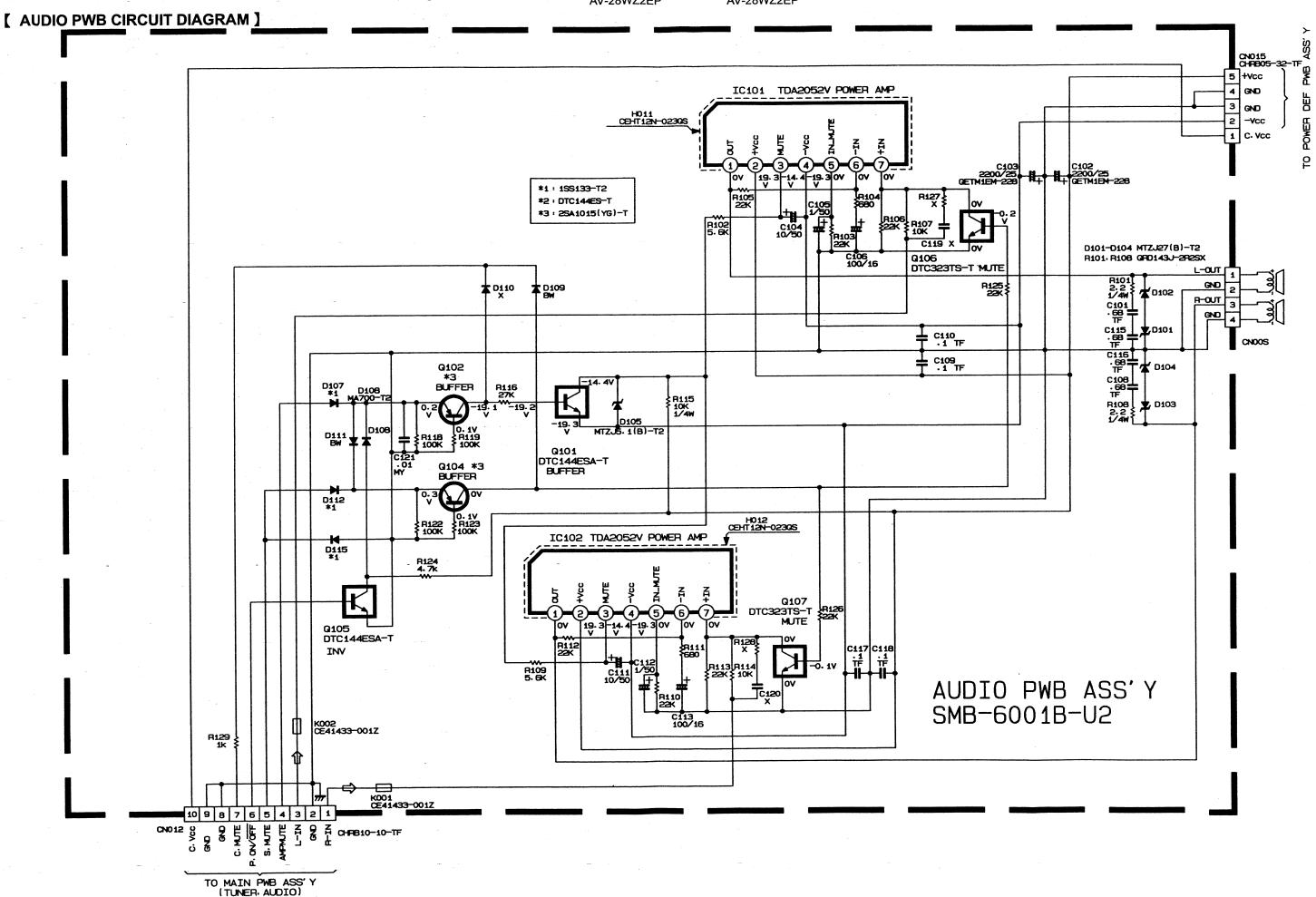
# [ FRONT CONTROL PWB CIRCUIT DIAGRAM]



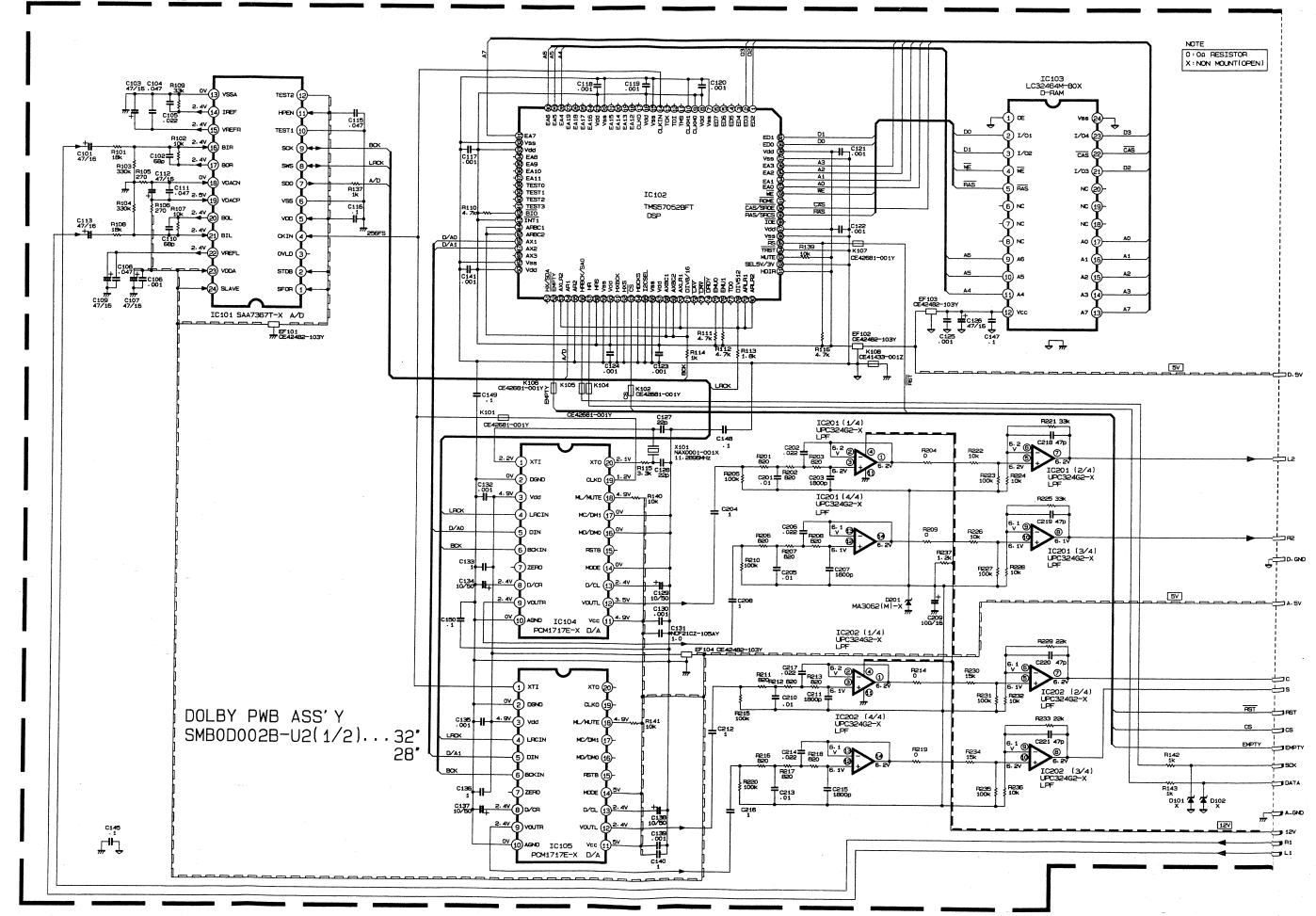
2-24

# [ POWER DEF PWB CIRCUIT DIAGRAM ]

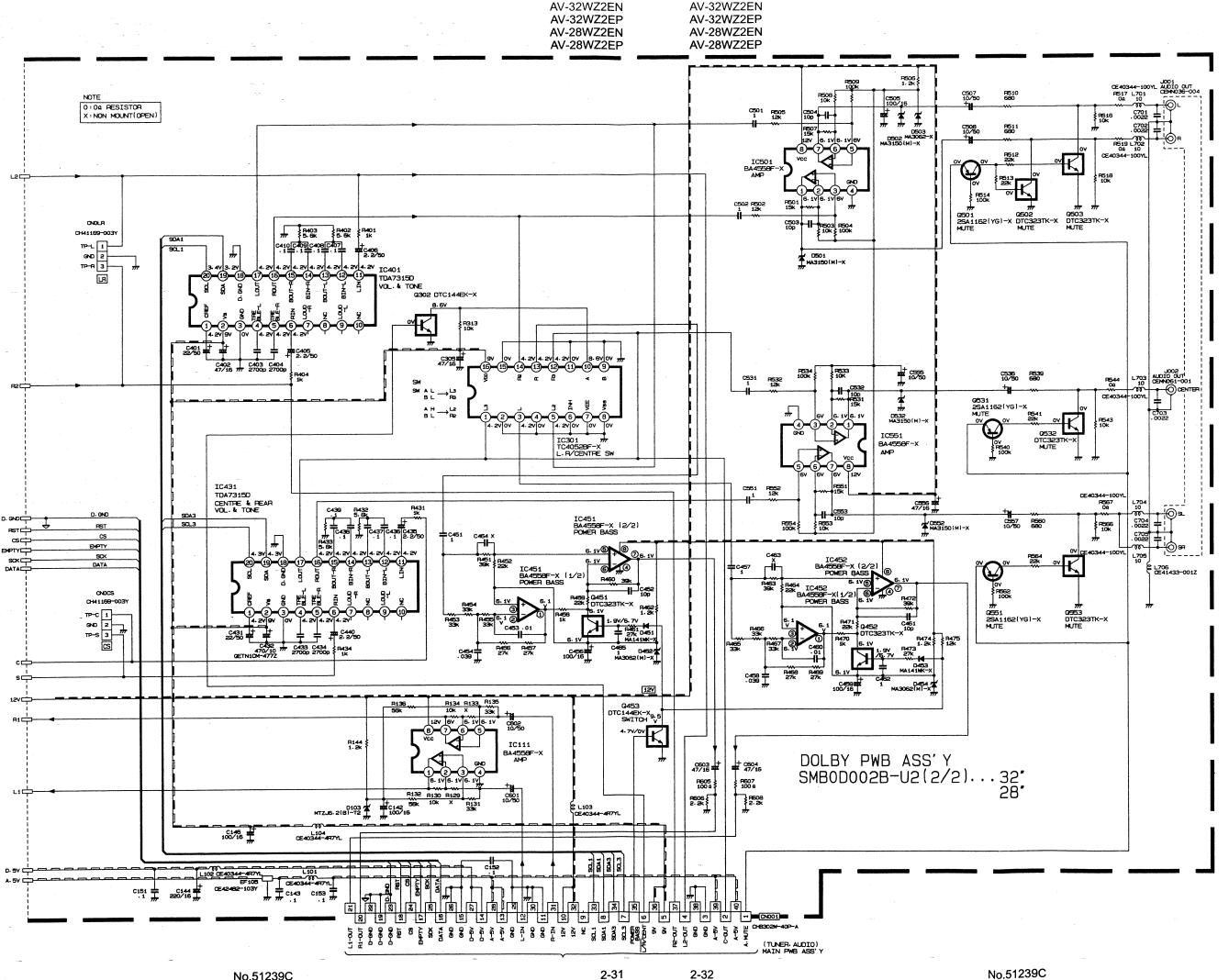




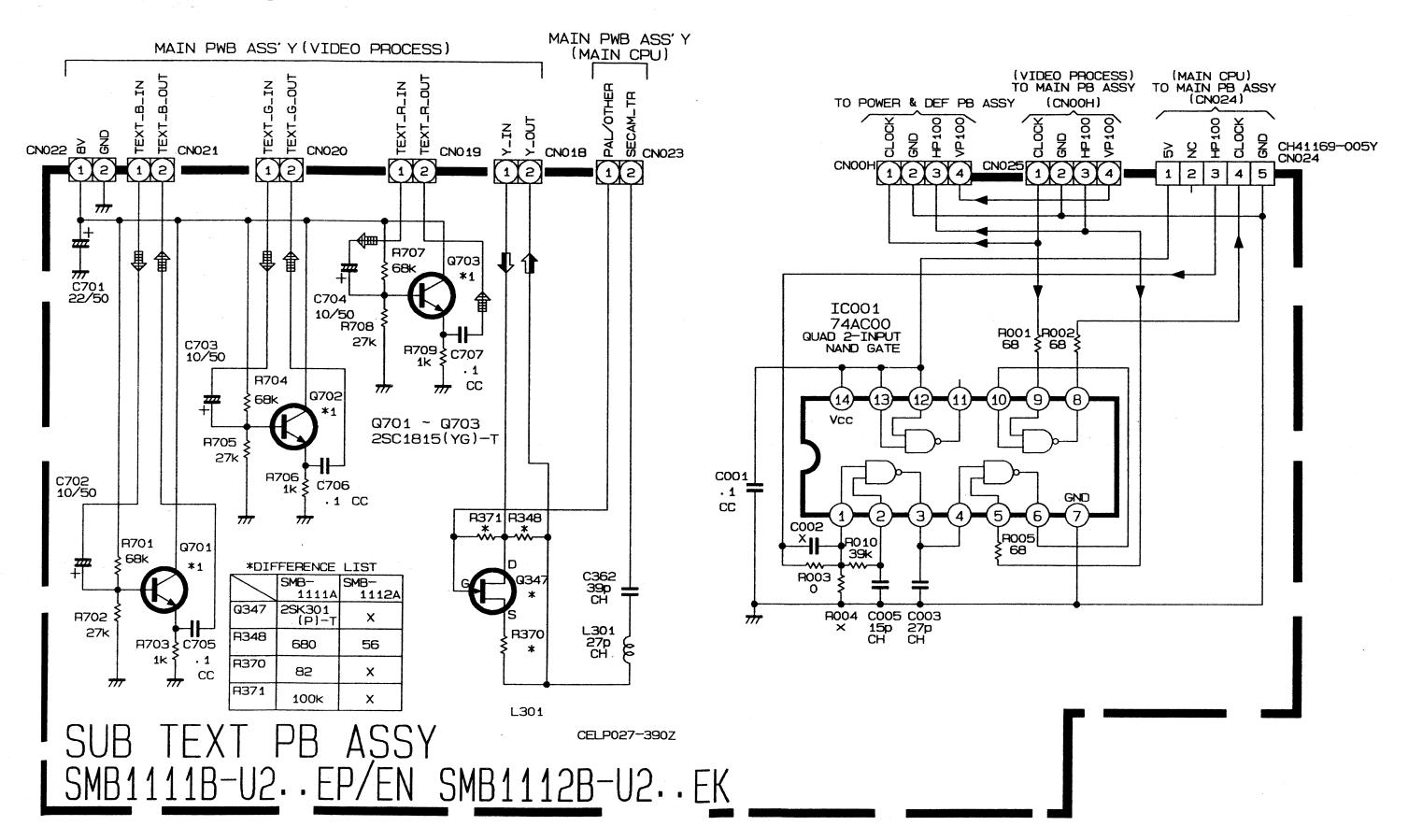
# [ DOLBY PWB CIRCUIT DIAGRAM ]



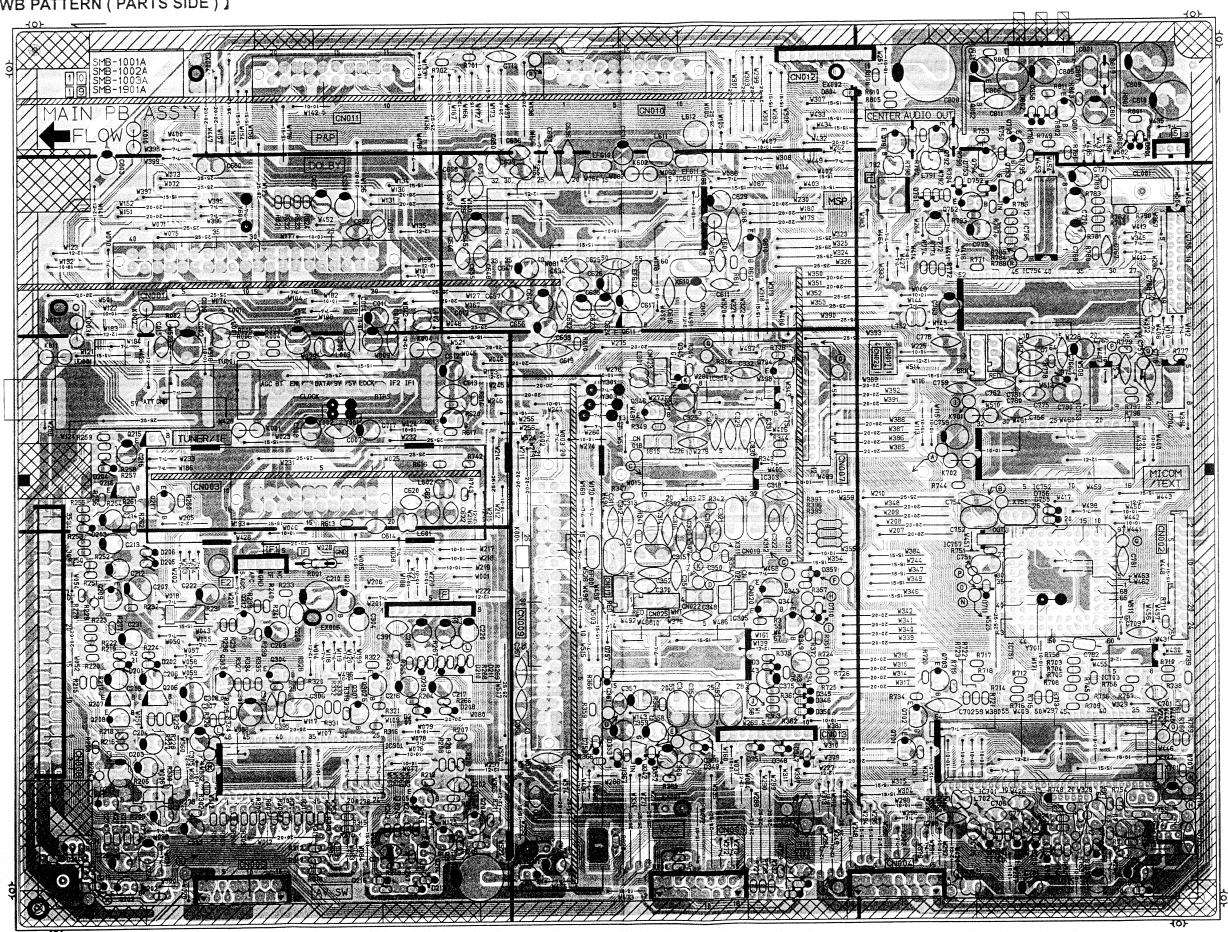
2-30



# [ SUB TEXT PWB CIRCUIT DIAGRAM ]



# [ MAIN PWB PATTERN ( PARTS SIDE ) ]



2-38

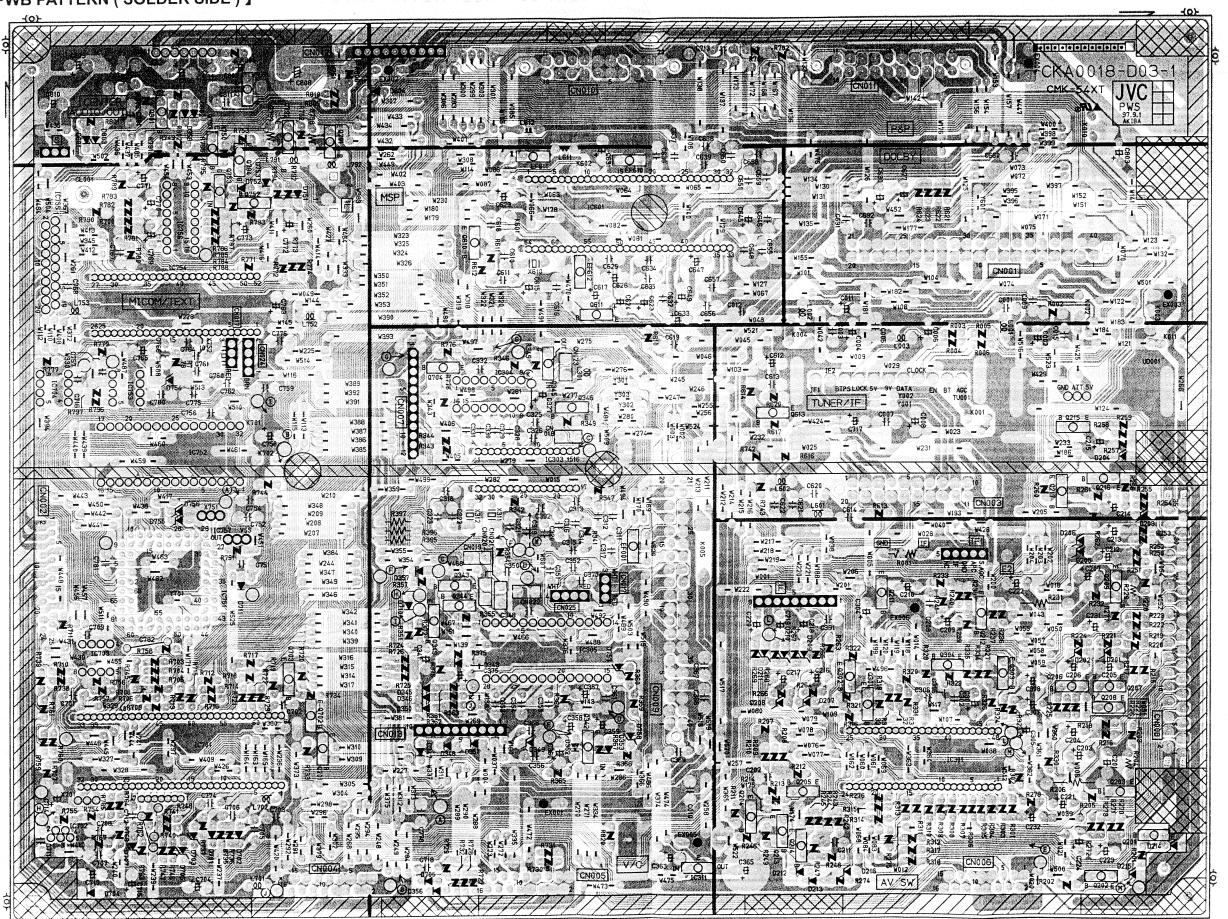
 AV-32WZ2EN
 AV-32WZ2EN

 AV-32WZ2EP
 AV-32WZ2EP

 AV-28WZ2EN
 AV-28WZ2EN

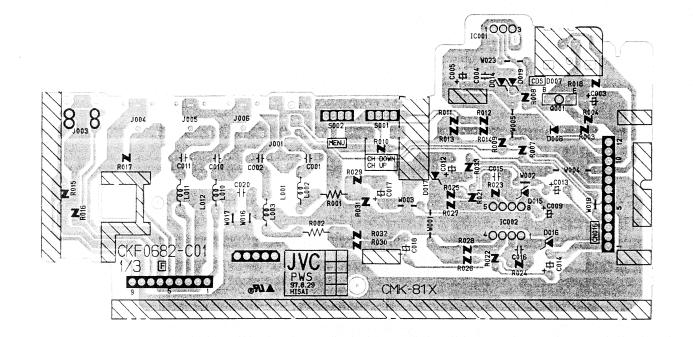
 AV-28WZ2EP
 AV-28WZ2EP

# [ MAIN PWB PATTERN ( SOLDER SIDE ) ]

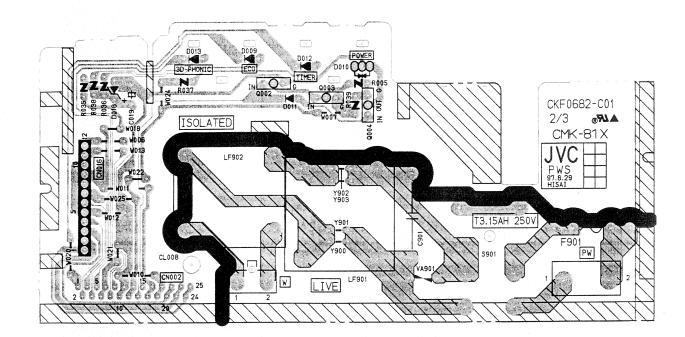


AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP

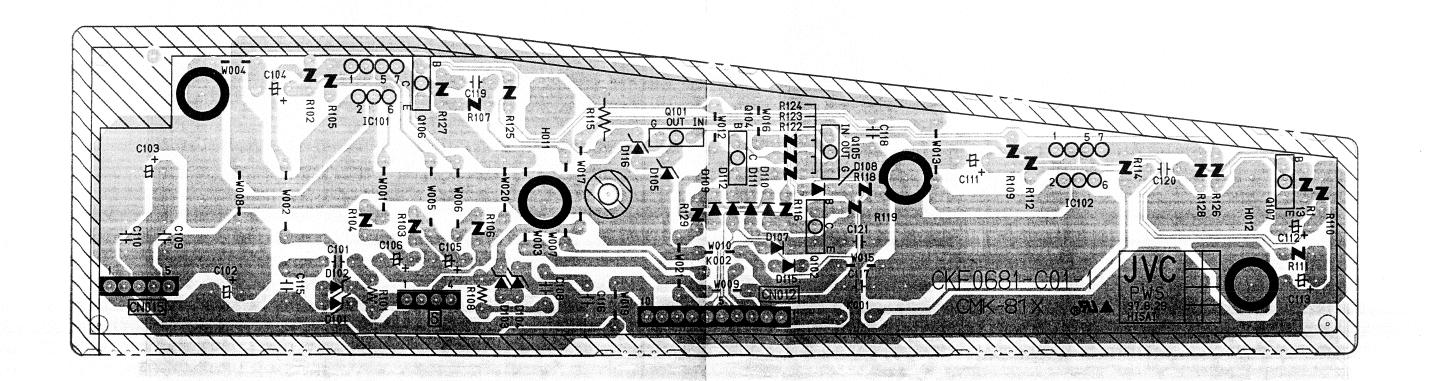
# [ FRONT CONTROL PWB PATTERN 1 ]



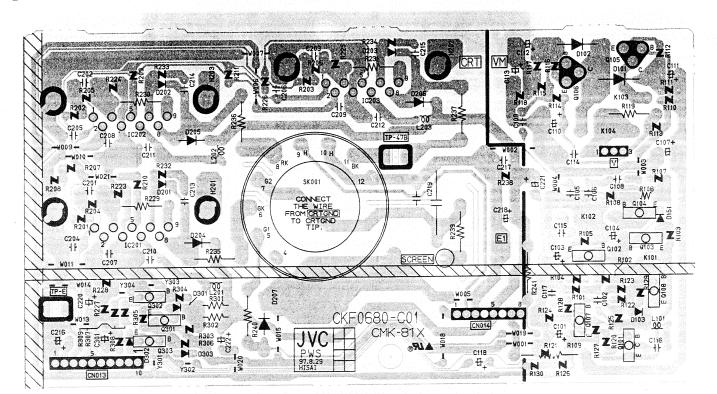
# [ FRONT CONTROL PWB PATTERN 2 ]



# [ AUDIO PWB PATTERN ]

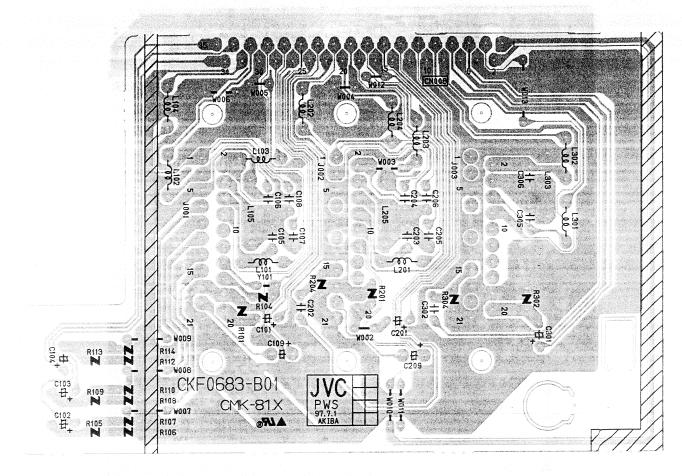


# [ CRT SOCKET PWB PATTERN ]



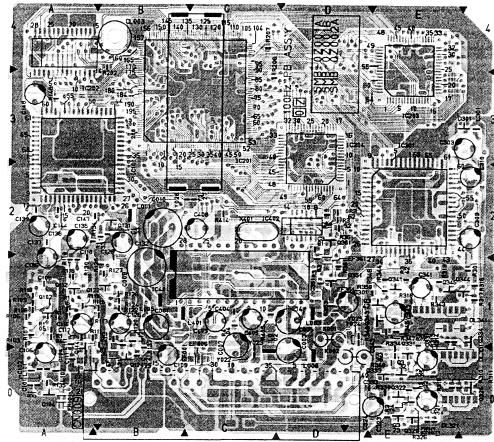
AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP

# [ AV TER. PWB PATTERN ]

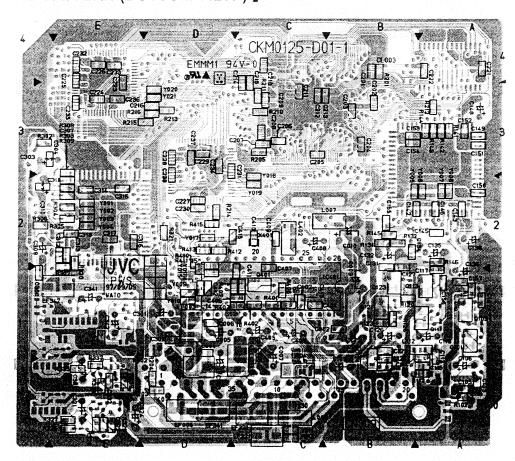


AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP

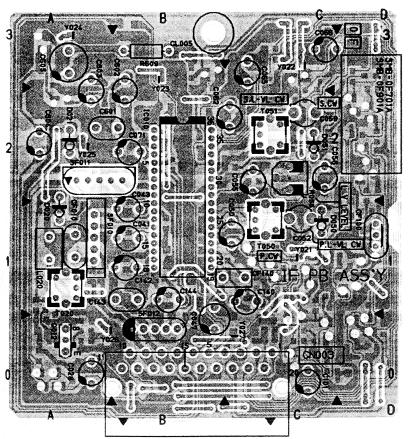
# [ 100Hz PWB PATTERN ( TOP VIEW ) ]



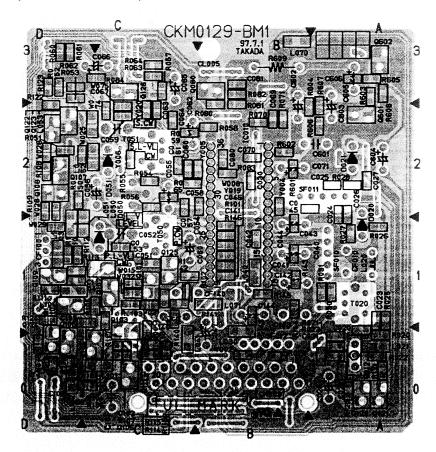
# [ 100Hz PWB PATTERN (BOTTOM VIEW ) ]



# [ IF PWB PATTERN ( TOP VIEW ) ]



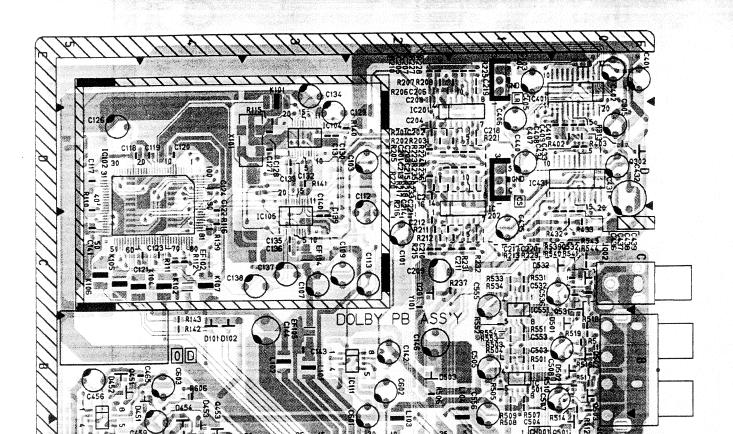
# [ IF PWB PATTERN (BOTTOM VIEW ) ]

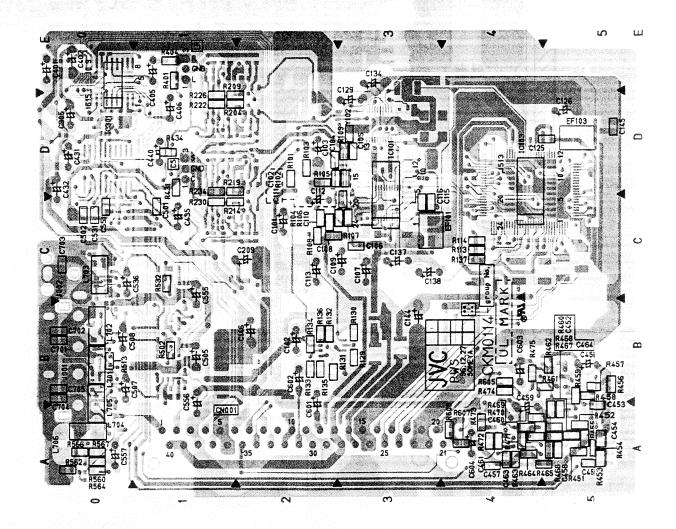


AV-32WZ2EN AV-32WZ2EP AV-28WZ2EN AV-28WZ2EP

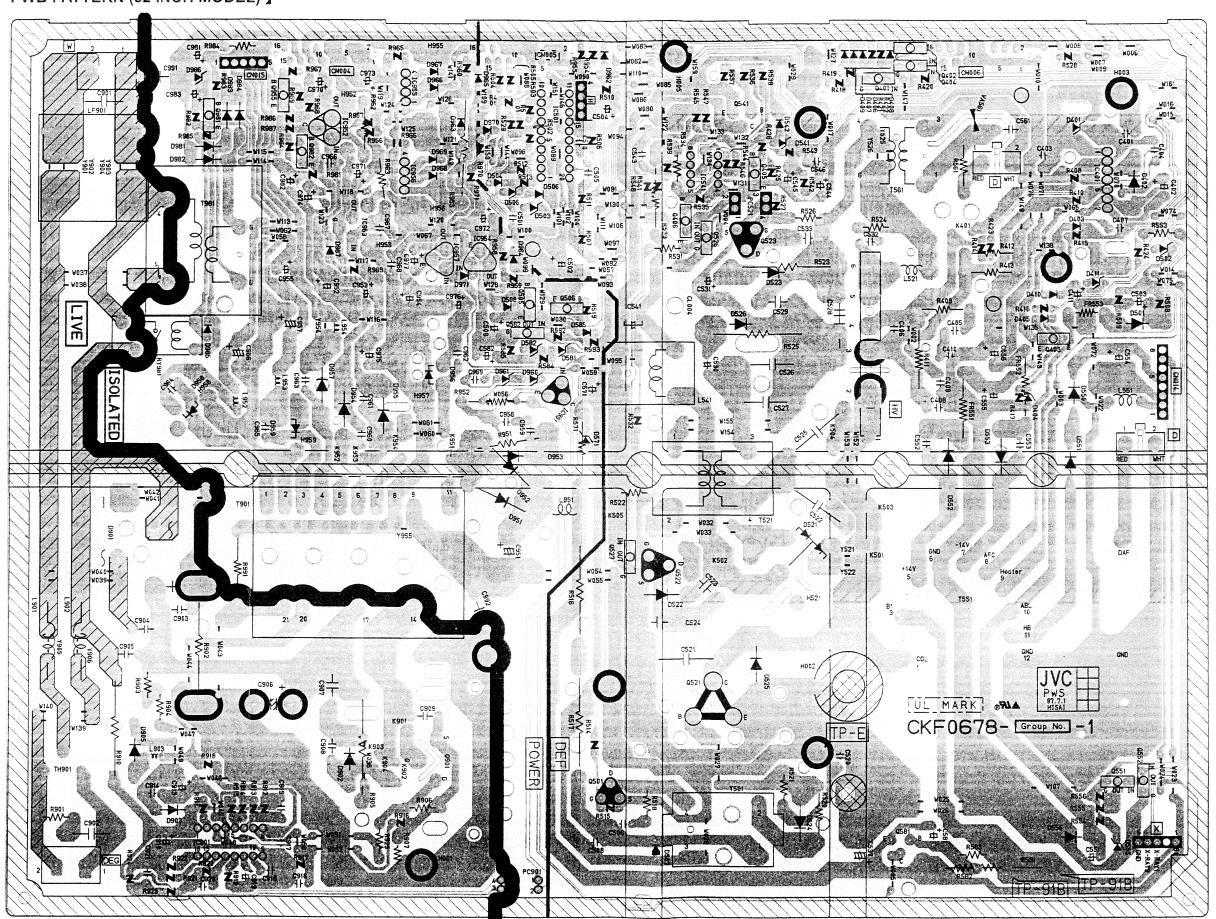
[ DOLBY PWB PATTERN (BOTTOM VIEW)]

[ DOLBY PWB PATTERN (TOP VIEW)]



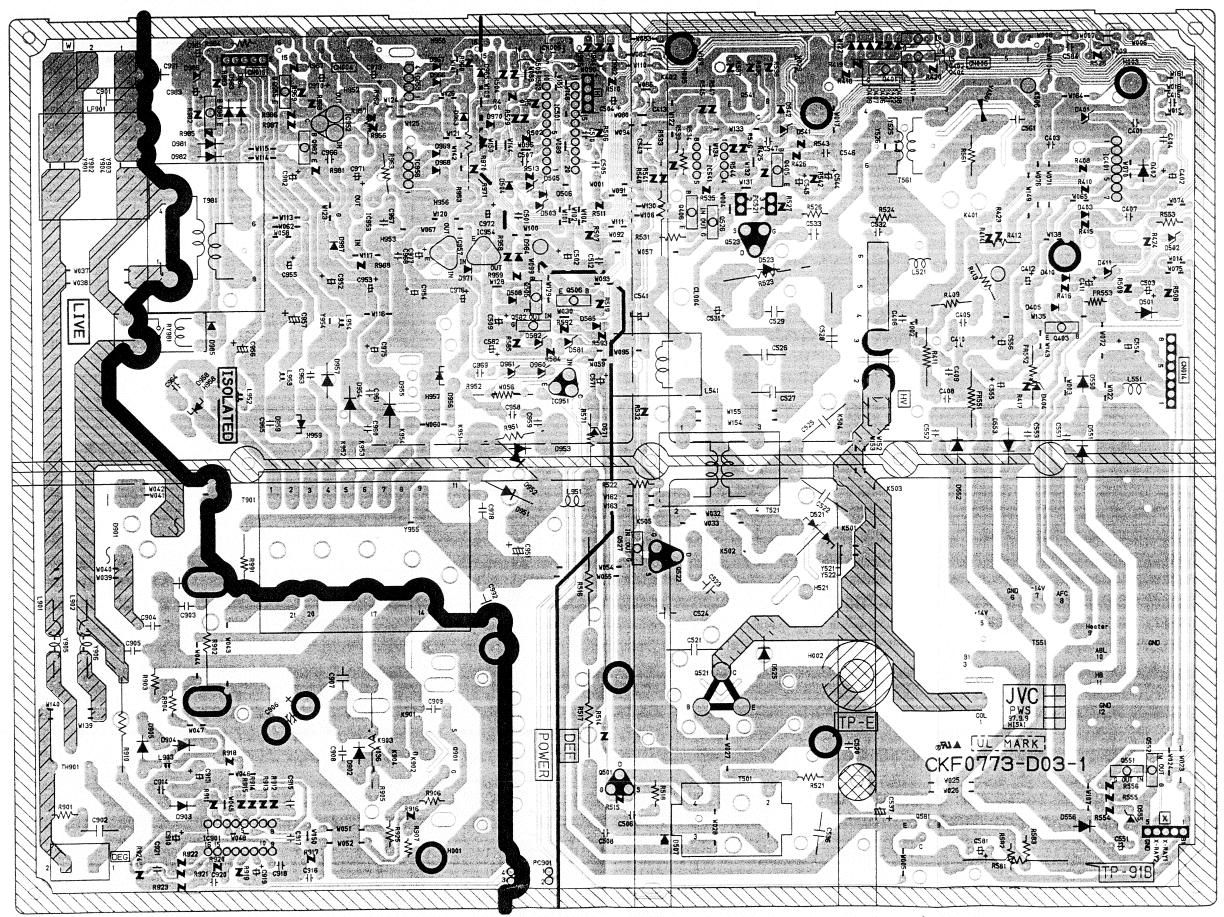


# [ POWER DEF PWB PATTERN (32 INCH MODEL) ]



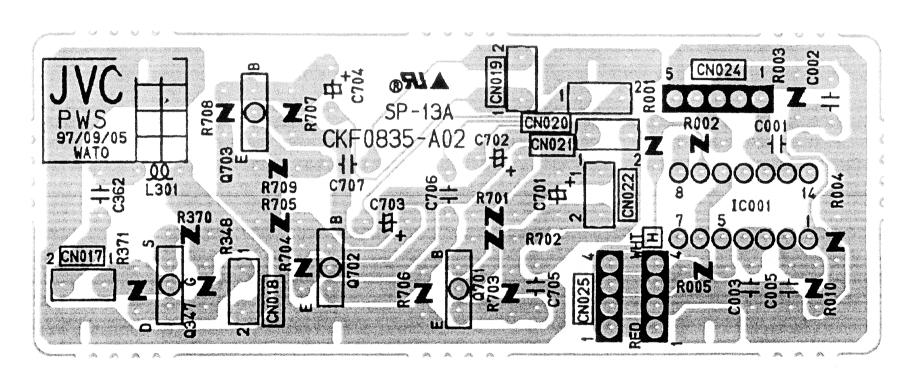
2-49

# [ POWER DEF PWB PATTERN (28 INCH MODEL) ]



2-55

# SUB TEXT PWB PATTERN ]



#### **SPECIFICATIONS**

Model	AV-32WP2EP	AV-32WZ2EP	AV-28WZ2EP					
TV RF systems	CCIR L B/G, 1							
Colour systems	PAL, SECAM (NTSC 3.58 / 4.43 M	(Hz only in EXT modes)						
Channels and frequencies	F2-F10, F21-F69, E2-E12, E21-E6	59, S1-S41, X, Y, Z, Z+1, Z+2, A-H, nel frequencies 116-172 MHz and 2						
Sound-multiplex systems	A2/NICAM (B/G, L) system							
Teletext systems	Fastext (United Kingdom system)	/ TOP (German system) / WST (sta	andard system)					
Power requirements	AC 220 - 240 V. 50 Hz							
Power consumption	Maximum 266 W, Average 161 W, Standby 0.8 W	Maximum 248 W, Average 151 W, Standby 0.8 W	Maximum 242 W, Average 147 W, Standby 0.8 W					
Picture tube size .	Visible area 76 cm (measured diagonally)		Visible area 66 cm (measured diagonally)					
Audio output	Rated Power output 20 W + 20 W + 5 W	Rated Power output 20 W + 20 W						
Speakers	10 cm round × 2, 3.5 cm round × 2, (10 cm × 3 cm oval) × 1	10 cm round × 2, 3.5 cm round × 2						
External input / output	EXT-1, EXT-2, EXT-3	21-pin Euroconnector (SCART)						
	EXT-4	VIDEO IN (RCA) AUDIO L / R IN (RCA) S-VIDEO IN (Mini Din 4-pin)						
	AUDIO OUT	(Variable out (0-1 Vrms), low imported output (RCA) FRONT L/R output (RCA) SURROUND REAR L/R output						
	Headphone jack (stereo mini jack, dia. 3.5 mm)							
Dimensions (W × H × D)	805 mm × 550 mm × 550 mm		716 mm × 489 mm × 496 mm					
Weight	50.3 kg	50.2 kg	36.3 kg					
Accessories	Remote control unit RM-C791 × 1 AAA (R03) dry cell battery × 2	Remote control unit RM-C793 × AAA (R03) dry cell battery × 2	1					

#### Design and specifications subject to change without notice.

Pictures displayed on the screen using this TV's image-processing functions should not be shown for any commercial or demonstration purpose in public places (tearooms and halls in hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.



# JVC

# **COLOUR TELEVISION**

# AV-32WP2EN / EP AV-32WZ2EN / EP AV-28WZ2EN / EP

### INSTRUCTIONS

Thank you for purchasing this JVC colour television.
To ensure your complete understanding, please read this manual thoroughly before operation.

#### **WARNING:**

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

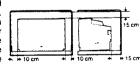
#### CAUTION:

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

- Operate only from the power source specified (AC 220 240 V, 50 Hz) on the unit.
- 2. Avoid damaging the AC plug and power cord.
- Avoid improper installation and never position the unit where good ventilation is unattainable.

When installing this television, distance recommendations

must be maintained between the floor and wall, as well as instalment in a tightly enclosed area or piece of furniture. Adhere to the minimum distance guidelines shown for safe



- operation.

  4. Do not allow objects or liquid into the cabinet openings.
- In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

When you don't use this TV set for a long period of time, be sure to disconnect the power plug from the AC outlet.

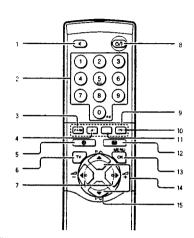
#### **CONTENTS**

Locations of remote control buttons  Locations of TV buttons and parts	_
PREPARATION AND BASIC OPERATION	. 4
SOUND AND PICTURE	11
OTHER FEATURES	16
TELETEXT	18
SURROUND SOUND	20
OTHER PREPARATION	22
CONNECTING AMPLIFIRES AND SPEAKERS	27
TROUBLESHOOTING	29
SPECIFICATIONS	33

# RATING INSTRUCTIONS

# Locations of remote control buttons

#### **OUTSIDE BUTTONS**



① Mute button	p.11
2 Number buttons	p.7
3 ZOOM button	p.13
④ 3D button	p.20
5 Information button	p.16
⑥ TV button	
☼ Volume -/+ buttons	p.8
Standby button	p.6. 8
Colour buttons	
10 PIP button (AV-32WP2EN and AV-32WP2EP only	.) p.14
① P. BASS button	p.11
② TV/text button	p.18
③ OK button	
⊕ PR channel V/Λ buttons	p.7
① ◀/▶ / ▼/▲ buttons	
Teletext/VCR control buttons	p.18

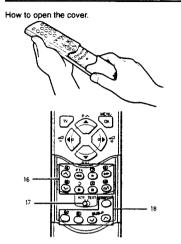
- **W** VCR/TEXT selector switch
  - · When switched to the VCR side, the 16 buttons function as the JVC VCR control buttons.

#### Notes:

- For details on button functions, see the JVC VCR
- Depending on your VCR, the remote control may not operate perfectly, and may not even control the VCR at all.
- . When switched to the TEXT side, the 16 buttons function

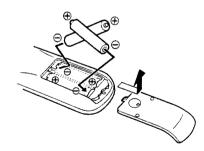


#### INSIDE BUTTONS



# Inserting batteries into your remote

Use two AAA/R03 dry cell batteries. Insert two batteries, observing the 
and polarities, inserting the end first.



#### CAUTION:

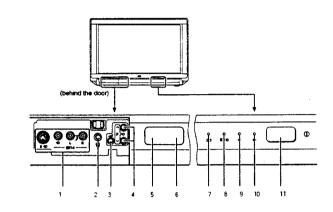
Follow the cautions printed on the batteries.

remote control, not for regular use.

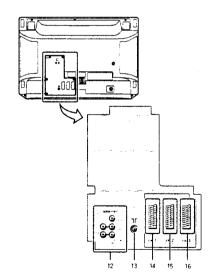
- Battery life is approx. six months to one year, depending on frequency of use.
- If the remote control operates erratically, replace the batteries. We recommend that you use the supplied batteries temporarily and replace them as soon as operation becomes erratic. The supplied batteries are for operational testing of the

# Locations of TV buttons and parts

#### FRONT PANEL



#### **REAR PANEL**



.=-	riodapriorio jaon (ilinii jaon)	p.0
3	Volume button (Press this button to display the level indicator. Press the 4 Up/ buttons to change volume while volume level indicator is displayed	down the
<b>(4)</b>	Up/down buttons (You can use this button as the buttons of the PR channel. Press 3 Volume button makes this but	sing the
_	function as the Volume -/+ butto	HIS.)
<u>(5)</u>	Remote control sensor	
6	ECO sensor	
7	3D lamp	p.20
(8)	ECO lamp	p.12
(9)	Sleep timer lamp	p.16
(10)	Power lamp	p.6, 8
O	Main power button	p.6, 8
(2)	AUDIO OUT terminals	p.27
(3)	Aerial socket	p.4
14	EXT-1 terminal	p.4, 22
( <b>5</b> )	EXT-2 terminal	p.4, 22
16	EXT-3 terminal	p.4, 22

EXT-4 terminals

(2) Headphone jack (mini jack)

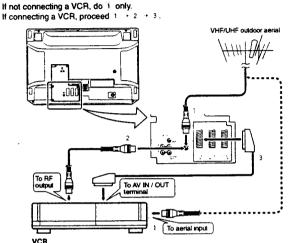
p.4, 22

(AV-32WP2EN and AV-32WP2EP only.)

2

# PREPARATION AND BASIC OPERATION

# 1. Connecting the aerial and VCR



#### Notes:

- For further details, refer to manuals provided with the devices you are connecting.
- Connecting cables are not supplied.
- You can view video from a VCR without doing 3. For details, refer to the manual provided with your VCR.
- Connect the S-VHS VCR to either the EXT-2 or EXT-3 connector. When the S-VHS VCR is connected to the EXT-1 connector, S-VIDEO input can not be selected.

# 2. Connecting other external devices

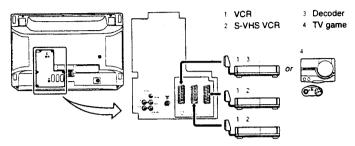
#### Conditions

This TV set has external device connectors. EXT-1 to EXT-4 to which you can connect a VCR. However, there
are some differences in functions among them. Consult the following table before making connections.

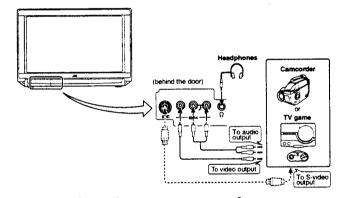
	EXT-1	EXT-2	EXT-3	EXT-4 (front)
VIDEO IN	v	N*1		\ \11
VIDEO OUT	√ *2	٧,3	-	-
S-VIDEO IN	-	N*1	ς ••	V *1
S-VIDEO OUT	-	-	-	
RGB IN	· ·	-	I	
AUDIO-L IN		\		N
AUDIO-R IN	×	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		`
AUDIO-L OUT	√ •2	v *3	-	T -
AUDIO-R OUT	v *2	\'3	-	
Others	Automatic dete     Automatic dete	ection and switchirection and switchir	ng of input mode ng of ZOOM mod	

- 1 Select VIDEO or S-VIDEO mode from the EXT SETTING menu. For details, see page 22 "EXT SETTING".
- 2 Only the TV broadcast is output. Even when a SUB picture is displayed, the output TV broadcast PR channel does not change. However, when another PR channel is being watched in the SUB picture, if the SWAP function is used the output TV broadcast PR channel is switched.
- "3 TV broadcasts or inputs from EXT-1, 3 or 4 can be output. For details, see page 22 "DUBBING"
- Use headphones with a stereo mini jack (dia. 3.5 mm).
- When using headphones, refer to "To listen to the sound using headphones" on page 8.
- For further details, refer to manuals provided with the devices you are connecting.
- · Connecting cables are not supplied.
- For details on how to connect the AUDIO OUT terminals on your TV and external devices such as the audio amplifiers or speakers, see page 27.

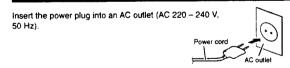
#### Devices which can be connected to the terminals on the rear panel



#### Devices which can be connected to the terminals on the front panel



# 3. Connecting the power cord



# 4. Turning the power and TV on

#### Press the Main power button on the TV to turn the power on.

The Power lamp lights red (power on), then green (TV

If the power lamp stays red and does not change to green: Your TV is in the standby mode. Press the Standby button on the remote control to turn your TV on.

 You can also press the PR channel V//A button a number button or the up/down button on the front panel to turn the TV on

# 5. Initial Settings

- . When the TV is first turned ON, it enters into the initial setting mode, and the JVC logo is displayed.
- Press any button on the remote control.

Language menu appears.

#### Selecting the on-screen language

You can select your language from ten languages listed on the LANGUAGE menu. The displayed menus on the screen are described in the selected

#### 2. Press V/A button to select ENGLISH.



Press OK button.

English is set for the on-screen display description, and the COUNTRY menu appears.



#### Automatically allocating stations to PR channels

To view a TV programme, you must first allocate broadcast stations to PR channels. You can automatically allocate up to 99 stations to PR channels PR1 to PR 99 on this TV. Broadcast stations that can be received are automatically determined and set to PR channels.

#### Note:

. The TV enters into the initial setting mode only once when the TV is first turned ON. If you turn the TV off or exit from the setting menu while performing the initial settings by mistake, you must redo the initial settings, "LANGUAGE" and "AUTO PROGRAM", following the procedures described in page 23.

#### Note:

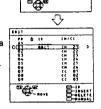
 In this manual, operation procedures are explained in English as the onscreen language is set to ENGLISH If you select "FRANCAIS" from the LANGUAGE selection menu menus are all described in French of course.

#### Press V/▲ and ◄/> button to select your country, then press blue button.

Broadcast stations are automatically allocated to the PR channels.

The EDIT menu is displayed after completed the allocation.

. If you want to edit PR channels or allocate a station to PR0 (AV) channel, see page 24 "EDIT/MANUAL" for procedural description.



· If you want to quit automatic allocation in the middle, press the TV button.

#### The procedure is complete.

Press the TV button to exit the menu.

# 6. Viewing a television programme

#### Select a PR channel.

#### Selection



Press the PR channel V/∧ button

#### Direct channel selection

· Press the corresponding number buttons.



Example: To select channel 6, press "6" To select channel 12, press "1" and "2"



#### channel (PR 0 channel)

Notes:

· Enter "0" when selecting an AV

. If your TV is AV-32WP2EN or AV-32WP2EP, the MULTI-PICTURE function can be used to select a PR channel. For details, refer to "MULTI-PICTURE" on page 15.

. If the nicture is not clear or no colour

appears, change the colour system

manually (see page 11 for details).

#### To use the PR LIST to select a PR channel



- 1. Press Information button repeatedly to select PR LIST. The PR LIST appears.
- · To exit the PR LIST, press TV button.

#### channel. Press ▶ button to view the next page of the PR LIST.

- 2. Press V/▲ button to select a PR
- previous page of the PR LIST.



#### Note:

 The fi mark will appear on the PR channel when the CHILD LOCK setting is on (see page 17)



3. Press OK button.

#### 2. Press the Volume -/+ button.



The Volume level indicator appears and the volume changes as you press the Volume -/+



#### Turning the TV and power off

1 Press the Standby button to turn the TV off.

The Power lamp changes from green to red.

The TV enters standby mode.

2. Press the Main power button on the TV to turn the main power off.

The Power lamp goes off.

The MENU appears.

- 24	-	

 To save energy, we recommend that you turn the main power off if you do not plan to use your TV for a long time.

### To listen to the sound using headphones

Condition:
Connect headphones to the TV.

1. Press OK button.

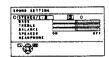
MENU CX



2. Press ▼/▲ button to select SOUND SETTING, then press OK button.

The SOUND SETTING menu appears.





3. Press ▼/A button to select HEADPHONE, then press OK button.

The HEADPHONE menu appears.



HE ADPHORE			_
DIVOLUNE	n 🗀	Home	25
OUTPUT TV SPEAKER	RAIM OH	***	
tree an			

# 4. Press V/A button to select TV SPEAKER, then press



OUIPUT HAIN SUB OUIY SPEAKER ON OIF	NEADPHONE VOLUME	0 [	DECEMBER 21
OUTPUT HATE SUB-	AGLOME	.,	
OUT SPEAKER ON 1977	QUIPUI		508
	OLIV SPEAKER	OR	1811

N: The sound from the TV speakers is not turned off even when the headphones are connected.

OFF: The sound from the TV speakers is turned off when the headphones are connected.

#### Note:

 The sound output from the AUDIO OUT terminals can not be turned off.

# Press V/A button to select VOLUME, then press I button to adjust the volume of the headphones.



HE ADPHORE		
OVELURE	o ==	25
OUTPUT TV SPEAKER	841#	eus off
00,000		

#### 6 Press OK button.

This completes the setting

# To select a channel without using the remote control

You can also use the buttons on the front panel of the TV.

#### 1. Press the Up/down button to turn your TV on.



The Power lamp changes from red to green.

# 2. Press the Up/down button to select the PR channel.

3. Adjust the volume.



- Press the Volume button.
   The volume level indicator appears.
- Press the Up/down button while the volume level indicator is displayed.

ÐŤ	o	tum	off	your	TV,	press	the	Main	power	button
----	---	-----	-----	------	-----	-------	-----	------	-------	--------

The Power lamp goes off.

#### Note:

 If your TV does not turn on, press the Main power button, and then press the Up/down button again.

#### Note

 PR channel selection is not available while the volume level indicator is displayed.

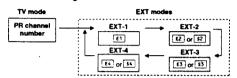
#### PREPARATION AND BASIC OPERATION

#### Viewing images from external devices

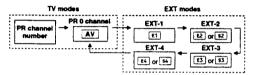
# Repeatedly press the 0 button to select the EXT terminal.

The current selection appears, and disappears after several seconds

When a station is not registered to the PR 0 (AV) channel, pressing the 0 button changes the selection as follows:



When a station is registered to the PR 0 (AV) channel, pressing the 0 button changes the selection as follows:



#### TV mode:

Shows images input from an external device (such as a VCR) or TV aerial connected to the aerial socket of your TV.

#### EXT modes:

Shows images input from an external device (such as a VCR) connected to the selected EXT terminal.

 To use S-Video mode to view input from an S-VHS VCR, see "To select S-VIDEO input for a terminal" on page 22. When selecting EXT-2.EXT-3 or EXT-4 input terminals as S-VIDEO input, E2.E3 or E4 changes to S2.S3 or S4in the display.

- If the picture is not clear or no colour appears, change the colour system manually (see page 11).
- When selecting an EXT terminal with no input signal, the EXT number and ID become fixed on screen.

# SOUND AND PICTURE

#### MUTE

You can mute the volume to 0 instantly. This is convenient when answering the phone or when receiving visitors.

1. Press (Mute).

The sound is muted.



To restore the sound:
Press the Mute button again.

#### **POWER BASS**

You can enjoy richness and fullness of the bass sound.

1. Press P. BASS.

The POWER BASS turns on.

P.BASS

POWER BASS ON

To cancel the function: Press the P. BASS button again.

POWER BASS OFF

#### **MULTI SOUND**

You can select the multi sound mode for stereo broadcast programmes and bilingual programmes.

Note:

 The MULTI SOUND function has no effect on programmes other than A2 or NICAM broadcast programmes.

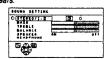
1. Press OK.

The MENU appears.



 Press ▼/▲ to select SOUND SETTING, then press OK.

The SOUND SETTING menu appears.



3. Press ▼/▲ to select STEREO / I • II.

#### Notes

- The multi sound mode display is different from the broadcast programme.
- The multi sound function does not work in EXT modes.
   The STEREO / IHI does not appear in SOUND SETTING.

# 4. Press **4/**▶ to select a multi sound mode.

- O : Stereo sound
  I : Bilingual I (Sub I)
- I : Bilingual II (Sub II)
- () : Normal sound

#### 5. Press OK.

This completes the setting.

#### Note:

 When you display the current PR channel number, the current multi sound mode appears for approximately 3 seconds

#### TINT

You can choose from among three TINT modes.

1. Press OK.

The MENU appears.

 Press ▼/▲ to select PICTURE SETTING, then press OK.

The PICTURE SETTING menu appears.

3. Press V/▲ to select TINT.



Press ◄/▶ to select a tint mode.

COOL:

A cool white colour base with a boost in the colour and contrast levels. Creating a more vivid picture.

WARM:

Use this mode when viewing film programmes.

NORMAL:

A normal white colour base with no boost in the colour or contrast levels.

5. Press OK.

This completes the setting

#### **COLOUR SYSTEM**

The colour system is automatically selected, but if the picture is not clear or no colour appears, select the colour system manually.

1. Press OK.

The MENU appears.

 Press ▼/▲ to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.



 Press ▼/A button to select COLOUR SYSTEM, then press OK.

The COLOUR SYSTEM menu appears.



 Press ♥/▲ button to select MAIN or SUB.

> If your TV is not AV-32WP2EN or AV-32WP2EP, the SUB will not appear. So you can skip this operation.

MAIN:

You can select the colour system of MAIN picture.

SUB:

You can select the colour system of SUB picture.

Press ◄/▶ to select the appropriate colour system.

PAL:

PAL system.

SECAM: SECAM system.

NTSC3.58:

NTSC 3.58 MHz system.

NTSC4.43:

NTSC 4.43 MHz system.

AUTO:

Automatic colour system selection.

- Auto may not function properly depending on signal quality. If the picture is abnormal in AUTO mode, select another colour system manually.
- When in TV mode (PR 1 to PR 99), you cannot select AUTO, NTSC 3.58 or NTSC 4 43
- When in TV mode (PR 0), you cannot select NTSC 3.58 or NTSC

#### 6. Press OK.

This completes the setting.

#### PICTURE/SOUND ADJUSTMENT

You can adjust the picture and sound as you like.

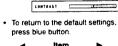
#### To adjust the picture

- 1. Press OK.
- The MENU appears.
- 2. Press V/A to select PICTURE SETTING, then press OK.

The PICTURE SETTING menu appears.



3. Press V/A to select an item, and press 4/▶ to adjust it.



•	nem	<u> </u>
Lower	CONT.	Higher
(	picture contrast	t)
Darker	BRIGHT	Brighter
(p	icture brightnes	is)
Softer	SHARP	Sharper
(p	icture sharpnes	is)
Lighter	COLOUR	Deeper
•	(picture colour)	
Reddish	HUE	Greenish
	(picture hue)	

You can adjust the HUE (picture hue) only when the colour system is NTSC 3.58 or NTSC 4.43.

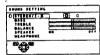
#### 4. Press OK.

This completes the setting.

#### To adjust the sound

- 1. Press OK.
  - The MENU appears.
- 2. Press V/A to select SOUND SETTING, then press OK.

The SOUND SETTING menu appears.



#### Note:

When DOLBY\* PRO LOGIC or PRO LOGIC 3D-PHONIC is selected in DIGITAL SURROUND menu BALANCE and SPEAKER do not appear

Manufactured under license from Dolby laboratories Licensing

"Dolby", the double-D symbole and "Pro Logic" are trademarks of Dolby Laboratories Licensing Corporation.

3. Press ▼/▲ to select an item, and press **◄/▶** to adjust it.

<	Item	<b>.</b>
Weaker	BASS	Stronger
(lov	requency so	und)
Weaker	TREBLE	Stronger
(hig	h frequency so	wnd)
Left	BALANCE	Right
	audio balance	1)

#### SPEAKER ON/OFF:

Use this function if you connect an audio amplifier and front speakers to your TV. If you set this function to OFF. sound is no longer output from the TV's speakers. For details, see "To use 2 external speakers\* on page 27.

#### 4. Press OK.

This completes the setting.

#### **FCO MODE**

When you set ECO mode to ON, the screen contrast is automatically adjusted to a setting suitable for the brightness of your room. This reduces eve strain and the power consumption of the TV.

#### 1. Press OK.

The MENU appears.

2. Press V/▲ to select PICTURE SETTING, then press OK.

> The PICTURE SETTING menu appears.

Press ▼/A to select ECO.



- 4. Press **4/**▶ to select ON. OFF.
- 5. Press OK.

This completes the setting.

. If you turned on ECO mode, the ECO lamp lights.

#### NATURAL SCAN

When you set NATURAL SCAN to ON, you can remove the horizontal line vibration on the screen so improving picture stability further.

#### 1. Press OK.

The MENU appears.

2. Press V/A to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.

3. Press ▼/▲ to select NATURAL SCAN.



- 4. Press **4/**▶ to select ON,
- 5. Press OK.

This completes the setting.

#### DIGITAL VNR

When you set DIGITAL VNR to ON, you can reduce the noise on the screen so improving picture quality

#### 1. Press OK.

The MENU appears.

2. Press V/A to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu annears.

3. Press V/▲ to select DIGITAL VNR.



- 4. Press **◄/**▶ to select ON,
- 5. Press OK.

This completes the setting.

#### ZOOM

Select a ZOOM mode to change the picture format. You can enlarge the picture to fill the wide TV screen (16:9 aspect ratio). In addition, you can stretch a normal picture (4:3 aspect ratio) to fill the wide TV screen

#### Notes:

- The picture format information of the present broadcasting programme may be received as WSS (Wide Screen Signalling). When AUTO mode is selected for ZOOM mode and the WSS signal is received, this TV automatically selects the optimum ZOOM mode corresponding to the WSS signal. However, in the case of weak WSS signal reception, this function may not work correctly. In this case, select an optimum ZOOM mode manually.
- If the EXT-1, EXT-2 or EXT-3 terminal's input is from a picture signal with a 16:9 aspect ratio picture format, the ZOOM mode may automatically changes to FULL mode. This is because the TV detects an identification signal which is not an WSS signal.

#### Manual ZOOM selection

vou can select a disired ZOOM mode manually.

#### 1. Press ZOOM repeatedly to select a ZOOM mode.

The picture expands.

#### REGULAR mode:

Use to view a normal picture (4:3 aspect ratio) unchanged.



#### PANORAMIC mode:

Stretches the left and right sides of a normal picture to fill the screen, in a way that does not appear unnatural







in PANORAMIC mode, the top and bottom of the picture are slightly cut off.

#### 16:9 ZOOM mode:

Use to expand a wide picture (16:9 aspect ratio).





#### 14:9 ZOOM mode:

Use to expand a picture with a 14:9 aspect ratio





# (14:9 ZOOM)

#### 16:9 ZOOM SUBTITLE mode: Use to expand a picture with a 16:9

aspect ratio having subtitles at the bottom of the screen.





(16:9 ZOOM SUBTITLE)

#### FULL mode:

Uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.





For pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio). select FULL mode to restore their original dimensions

#### To move the picture vertically:

If you cannot see subtitles at the bottom of the screen, or if the top or bottom is cut off, move the picture vertically.

#### Note:

You cannot move the picture vertically in AUTO, REGULAR and FULL mode.

#### Press ZOOM.

The current ZOOM mode is displayed.



#### 2. Before the display disappears, press ▼/▲ to move the picture up or down.

#### Note:

If you change the ZOOM mode. the picture returns to its default

#### Automatic ZOOM selection (AUTO mode)

You can set your TV to automatically select the optimum ZOOM mode to suit the picture format.

#### 1. Press ZOOM repeatedly to select AUTO.

Your TV automatically selects the optimum ZOOM mode to suit the current programme's picture format.

#### Note:

This function may not work correctly depending on the programme. In this case, select the optimum ZOOM mode

(Continued to the next page)

AV-32WZZEN AV-32WZZEN AV-28WZZEN AV-28WZZEN

#### To preset a ZOOM mode for the normal picture:

You can preset one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect

#### 1. Press OK.

The MENU appears

#### 2. Press V/▲ to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.

3. Press ▼/▲ to select 4:3 AUTO ASPECT, then press

The 4:3 AUTO ASPECT menu appears.

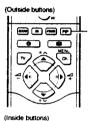


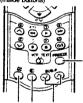
#### 4. Press V/A to select a ZOOM mode.

#### 5. Press OK.

This completes the setting.

#### PIP (AV-32WP2EN, AV-32WP2EP only)





- PIP button
- FREEZE button
- Multi button
- Swap button
- SUB-P V// button

#### BASIC OPERATION

You can select two types of PIP picture mode.

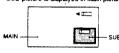
1. Press PIP repeatedly to select a PIP mode.

> Two pictures are displayed in the same time.

Twin pictuers mode: MAIN-picture is displayed on the left hand and SUB-picture is displayed on



Picture in picture mode: SUB-picture is displayed in Main picture



2. Press SUB-P V/A to select the SUB-picture's PR channel or EXT mode.

> To clear the SUB-picture: Press the PIP button again

- The PR channel or EXT mode image which is the same as the MAIN-picture can not be selected
- The movement of the Sub-picture image is not as smooth as that of the MAIN-picture image.
- If the MAIN-picture image signal condition is bad, the SUB-picture image may be disordered. If the MAIN-picture image signal condition is improved, the SUBpicture image also improves.
- If the picture standard of the MAIN-picture and SUB-picture are different, the top and bottom of one of them may be missing.
- If an external device is operated. the SUB-picture may disappear. If this happens, press the PIP button once more and redisplay the SUBpicture
- If the SWAP button is pressed when the image from the external

icture, the same image is displayed in both the MAIN picture and SUB-picture. If the SWAP button is pressed once more, the previous state is returned to. In the Twin pictures mode, a horizontal line is displayed at the top of the screen. This is normal and is not a multimetion

#### To change the position of SUB-picture in Picture in picture mode:

You can select the one of four positions of the SUB-picture in Picture in picture mode.

#### 1. Press OK.

The MENU appears.

Press ▼/▲ to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.

#### 3. Press ♥/▲ to select PIP, then press OK.

The PIP menu appears.



Press ▼/▲ to select PIP POSITION, then press **◄/▶** to select the position.

#### 5. Press OK.

The menu disappears.

#### To listen to the sound of the SUB-picture

While llistening to the sound of the main picture on the speakers, you can listen to the sound of SUBpicture on your headphones.

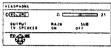
#### 1. Press OK.

The MENU appears.

2. Press V/A to select SOUND SETTING, then press OK. The SOUND SETTING menu appears

3. Press V/A to select HEAD-PHONE, then press OK.

The HEADPHONE menu appears.



4. Press V/A to select TV SPEAKER, then press 4/▶ to select ON or OFF.

Main pisture sound from speakers while listening to the sound on your headphones OFF.

No sound from speakers

5. Press V/A to select OUTPUT. then press 
/▶ to select SUB.

You can listen to the sound of MAIN picture on your headphones

#### Press ▼/A to select VOLUME. then press to adjust the volume of the headphones.

#### 7. Press OK.

The menu disappears.

#### Motes:

- When the SUB-picture is in TV mode, the SUB-picture sound is monaural only.
- The Multi sound function does not work for the SUB-picture sound.
- Neither any of the surround sound functions or the POWER BASS function work for the SUB picture

#### **MULTI-PICTURE**

The PR channel and EXT mode images can be displayed as still pictures on the outside of the MAINpicture, and the image which you want to see can be selected from these still pictures and seen as the MAIN-picture.

#### 1. Press the Multi button.

The PR channel and EXT mode images are displayed in the channel number order. Only the image which is displayed last is left as a moving picture. The other images change to still pictures.

#### Note

The MAIN-picture PR channel number or EXT mode number is skipped



5-pictures multi

In order to display the next PR channel or EXT mode image: Press the Multi button again

To clear the Multi-pictures: Press the TV button

#### Press the ▼/A button or SUB P V/A button and select the PR channel or EXT terminal image that you want to see.

The selected image changes from a still picture to a moving picture.

#### 3. Press OK.

The Multi-pictures disappear and the MAIN-picture image changes to the selected PR channel or EXT terminal image

#### To select the multi-picture style

You can select one of two multipicture's styles

#### 1. Press OK.

The MENU appears.

#### 2. Press ▼/▲ to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.

#### 3. Press V/A to select PIP. then press OK.

The PIP menu appears.



4. Press V/A to select MULTI-PICTURE, then press 4/▶ to select a multi-picture's stvie.

#### 5. Press OK.

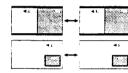
The menu disappears.

#### SWAP

You can swap MAIN and SUB-pictures

#### 1. Press the Swap button.

Each time you press the Swap button, the MAIN picture and SUB-picture swap.



#### Notes

If the SWAP button is pressed when the image from the external decoder is displayed in the MAIN picture the same image is displayed in both the MAIN picture and SUR picture. If the SWAP button is pressed once more, the previous state is returned to

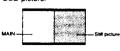
When another PR channel is being watched in the SUB picture if the SWAP function is used the TV broadcast PR channel, which is output from the EXT-1. EXT-2 or EXT-3 terminal, is switched

#### **FREEZE**

You can view the MAIN-picture's frozen image as the SUB-picture.

#### 1. Press FREEZE.

The main picture's frozen image (still picture) is displayed as the SUB-picture.



To cancel the FREEZE function: Press the FREEZE button again

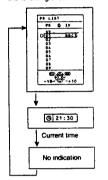
# OTHER FEATURES

#### INFORMATION

You can display the PR LIST or the current time.

1. Press (Information) repeatedly.

> The display changes cyclically in the following order.



#### About PR LIST:

· Ten positions including the currently selected PR channel will be displayed as a list.

Press ▼/▲ / ◀/▶ to select the desired PR channel. For details see page 7.

#### About the current time display:

This TV uses teletext data to determine the current time.

- . If the TV has not received a station that has teletext data since it was turned on, the time display is blank. To view the current time, select a station that is broadcasting teletext data. As long as you do not turn off the TV, then even if you select other stations, the time will still be displayed.
- When watching videos, the wrong current time is sometimes displayed.

#### SLEEP TIMER

You can set the TV to automatically turn off after a specified period of

- The SLEEP TIMER does not turn off the Main power
- 1. Press OK.
- The MENU appears.
- 2. Press W/A to select FEATURES, then press OK. The FEATURES menu appears.



3. Press V/A to select SLEEP TIMER, then press OK.

The SLEEP TIMER menu appears.



4. Press </b>

√ to select a period of time.

> You can set the period of time a maximum of 120 minutes in 10 minute increments

Turns off the SLEEP TIMER.

#### 5. Press OK.

. The Sleep timer lamp lights if you set the SLEEP TIMER.

# To display the remaining Sleep timer

Perform steps 1 to 3 to display the SLEEP TIMER menu, and press OK button when you finish checking the

#### To turn off the Sleep timer:

Perform steps 1 to 3 to display the SLEEP TIMER menu, press ◀ button to select "OFF", and then press OK button.

· The Sleep timer lamp goes out.

One minute before the SLEEP TIMER turns off the TV, "GOOD NIGHT!"

#### **BLUE BACK**

When viewing a PR channel with no or poor reception, or if there is no input from an external device, you can mute the sound and change the picture into a blue picture.

1. Press OK.

The MENU appears.

2. Press V/A to select FEATURES, then press OK. The FEATURES menu appears



3. Press ▼/▲ to select BLUE BACK.



- Press 
   I to select ON or OFF.
- 5. Press OK.

This completes the setting

#### CHILD LOCK

You can lock some PR channels to prevent your children from watching

#### To set the CHILD LOCK

1. Press OK.

The MENU appears.

2. Press ▼/▲ to select FEATURES, then press OK.

The FEATURES menu appears.



3. Press V/A to select CHILD LOCK, then press 0 button.

The SET ID NO menu appears.



- 4. Enter the ID number.
  - Press V/A to select a number. 2. Press **◄/▶** to move the cursor.
- 5. Press OK.

The CHILD LOCK menu appears.



6. Press V/▲ to select a PR channel, then press blue button.

The selected PR channel is locked



- . To cancel the CHILD LOCK: Press blue button again.
- Repeat step 6 to lock all PR channels which you want to lock
- 7. Press OK.

This completes the setting.

#### Notes:

- You cannot select a locked PR channel using the PR channel V/A buttons. Even if you can select a locked channel
- and display it, you can not view the programme of the locked channel.

#### To view a locked PR channel

- 1. Select a locked PR channel.
  - . Use the number buttons to select the PR channel.

The locked channel is displayed



2. Press [ ] (Information). The ID NO. input menu appears.



3. Press the number buttons to enter the ID number.

> You are now viewing the locked PR channel.

> If you forget the ID number: Perform steps 1 to 3 of "To set the CHILD LOCK". After you confirm the ID number, press the TV button to exit the

#### DEMONSTRATION

The demonstration runs automatically and introduces the menus of this TV's main features.

1. Press OK.

The MENU appears.

2. Press V/▲ to select DEMO, then press OK.

The demonstration begins

. To stop the demonstration, press any button on the remote control.

#### INDEX

You can go to the desired function's menu directly from this INDEX menu.

1. Press OK.

The MENU appears.

2. Press V/A to select INDEX. then press OK.

The INDEX menu appears.



3. Press V/▲ to select the function you want to use, then press OK.

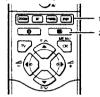
Your selected function's menu or the menu which includes your selected function appears.

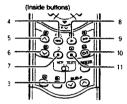
. To return to the MENU, press the Information button.

# TELETEXT

If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.

(Outside buttons)





- Colour buttons
- TV/text button
- 3 VCR/TEXT selector switch
  - · When this switch is set to the TEXT side, the following buttons function as the teletext control button.
- 4 MODE button
- 5 HOLD button
- SUB PAGE button
- STORE button
- REVEAL button
- 9 SIZE button
- 10 INDEX button
- 11 DISPLAY CANCEL button

#### **BASIC TELETEXT OPERATION**

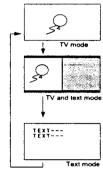
You can view three types of teletext broadcasts on the TV: Fastext, TOP and WST. The TV automatically recognizes the type of teletext broadcast.

Condition:

The VCR/TEXT selector switch must already be set to the TEXT side.

1. Select a channel with a teletext broadcast.

2. Press (TV/text).



- If your TV is not AV-32WP2EN or AV-32WP2EP, the TV and Text mode can not be selected
- The movement of the TV image in the TV and text mode is not as smooth as that in the TV mode

#### 3. Select a page number.

#### Browse:

Press the PR channel V/A button on the remote control

#### Direct selection:

Press the number buttons to enter a three-digit page number

#### Colour button selection:

Press a colour button to select the corresponding page number on the bottom line of the screen.

- Category names of teletext pages may appear instead of page numbers.
- In principle, ZOOM mode is fixed to FULL mode when you view Teletext programmes.
- Some Telefext programmes display a mixture of regular TV programmes and Teletext information. When viewing these programmes, ZOOM mode returns to the mode you selected before you started viewing Teletext programmes. With the ZOOM mode the Teletext information may not be displayed in the correct position. If this happens. press the TV/Text button to cancel the Text mode, then press the ZOOM button to change the ZOOM mode to the PANORAMIC mode or FULL mode.

 To return to TV mode, press the TV/text button repeatedly.

- You can also return to TV mode by pressing the TV button.
- None of the MENU operations are possible in the Text mode. Perform the MENU operation after pressing the TV/
- Text button to cancel the Text mode. In the TV and text mode, a horizontal line is displayed at the top of the screen. This is normal and is not a malfunction.

#### DISPLAY CANCEL

You can search for a teletext page while watching TV.

- 1. Select a teletext page.
  - The TV searches for a teletext page.

#### 2. Press DISPLAY CANCEL.

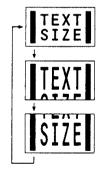
The TV programme appears. When the TV finds the teletext page. its page number appears in the upper left of the screen.

3. Press 📵 (TV/text) when the page number is on the screen.

#### SIZE

You can double the height of the teletext display.

1. Press SIZE repeatedly.



#### HOLD

You can hold a teletext page on the screen for a desired length of time. even while several other teletext pages are being received.

#### 1. Press HOLD.

s displayed in the upper left of the screen, and the teletext page is held on the screen.



To release hold mode: Press HOLD button again.

#### INDEX

Just press INDEX button to return to the index page.

#### 1. Press INDEX.

Fastext/TOP/WST: Returns to page 100 or a previously

specified page LIST mode:

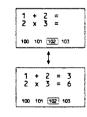
Returns to the page number displayed in the lower left area of the screen.

#### REVEAL

Some teletext pages include hidden text (such as answers to a quiz).

#### 1. Press REVEAL.

Each time you press REVEAL button, text is hidden or revealed.



#### LIST MODE

If you store the numbers of teletext pages you view often, you can quickly call up a desired teletext page whenever you like.

#### Note:

You can store up to 64 pages in memory. You can store four pages in each channel from 1 to 15 (60 pages), and four pages that are the same for al channels above channel 15 (4 pages).

#### To store the page numbers

1. Press MODE to engage LIST mode.

> Stored page numbers are displayed at the bottom of the screen.

2. Press a colour button, then enter the number of the teletext page.

To assign other pages to remaining colour buttons, repeat this operation.

#### 3. Press and hold STORE.

The four page numbers blink white to indicate that they are stored in

#### To call up a stored page

1. Press MODE to engage LIST mode.

Stored page numbers are displayed at the bottom of the screen.

To release LIST mode: Press MODE button again.

2. Press a colour button to which a page has been assigned.

#### SUB PAGE

Some teletext pages include subpages that are automatically displayed. You can hold any subpage, or view it at any time.

- 1. Call up a teletext page with sub-pages.
- 2. Press SUB PAGE.

Sub-page numbers are displayed at the left of the screen.

Background colour of the subpage number is yellow: This is the number of the sub-page which is currently being displayed.

Background colour of the subpage number is white:

These are the numbers of the subpages which can be displayed.

Background colour of the subpage number is blue or red: These are the numbers of subpages which have not been sent and can therefore not be displayed.

3. Press ▼/A button to select a sub-page number.

# SURROUND SOUND

#### DOLBY PRO LOGIC 3D-PHONIC

You can enjoy the ambiance of Dolby Surround encoded programmes.

#### Condition:

Before performing the procedure. disconnect headphones from the TV.

- This function works only with Dolby Surround encoded programmes.
- When operating this function, the TV's 3D lamp fights up.
- This function does not work correctly when listening to the sound with hearinhones
- 1. Press OK.
  - The MENU appears.

#### 2. Press V/A to select DIGITAL SURROUND, then press OK.

The DIGITAL SURROUND menu appears, showing the currently active function.

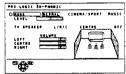


#### 3. Press V/A to select PRO LOGIC 3D-PHONIC.

To cancel the function: Select SURROUND OFF, then press the OK button

#### 4. Press ▶.

The PRO LOGIC 3D-PHONIC menu appears.



- Press ▼/A to select MODE.
- 6. Press **4/**▶ to select the desired mode.

#### NORMAL:

For normal programmes CINEMA/SPORT:

For cinema and aborts programmes

For music programmes

To adjust the effect level: Press the V/▲ button to select I FVFI then press the 4/▶ button to adjust the effect level.

#### To adjust the volume level of each speaker:

Press V/▲ button to select LEFT. CENTRE or RIGHT, then press the ■/► button to adjust the volume

#### Note:

Since models other than AV-32WP2EN and AV-32WP2EP do not have a centre speaker builtin to the TV. CENTRE can not be selected However when 2 external speakers are being used the TV speakers can be used as the centre speaker, so CENTRE can be selected

#### TV SPEAKER:

This setting is only changed when 2 external speakers are being used. For details, refer to "To use 2 external speakers" on page 27.

When not using external speakers leave the TV SPEAKER setting as L/R/C (L/R in the case of models other than AV-32WP2EN and AV-32WP2EP) Otherwise sound may not come out of the TV speakers or the sound may become monaural

#### 7. Press OK.

#### Note:

If, while using this function, you connect headphones to your TV, the 3D HEADPHONE function (see next page) activates automatically. However, if SPEAKER is set to ON in the HEADPHONE menu, the 3D HEADPHONE function is not activated

#### To turn on/off DOLBY PRO LOGIC 3D-PHONIC with one touch

#### Press 3D.

DOLBY PRO LOGIC 3D-PHONIC turns on.



PRO LOGIC 30-PHOBIC

#### Note:

If 3D HEADPHONE appears, disconnect the headphones from To cancel the function: Press the 3D button again.

SURROUND OFF

To return the previous surround function: Press the 3D button twice.

#### DIGITAL SURROUND

You can enjoy any one of the four Digital Surround function.

#### Condition:

- Before performing the procedure. disconnect headphones from the TV.
- 1. Press OK.

The MENU appears.

#### 2. Press V/A to select DIGITAL SURROUND, then press OK.

The DIGITAL SURROUND menu appears, showing the currently active function.



#### 3. Press V/A to select the desired function.

#### DANCE CLUB:

For the atmosphere of a dance club CONCERT HALL:

For the atmosphere of a concert hall STADIUM:

#### For the atmosphere of a stadium

HYPER SOUND: To give monaural sound the spacious

feeling of stereo sound

To cancel the function: Select SURROUND OFF.

#### 4. Press OK.

#### Notes:

- Only HYPER SOUND works well with monaural sound programmes.
- HYPER SOUND does not work well with stereo sound programmes.
- If, while using this function, you connect headphones to your TV. Headphone Surround (see next page) activates automatically. However, if SPEAKER is set to ON in the HEADPHONE menu. the HEADPHONE SURROUND function

#### **HEADPHONE** SURROUND

You can enjoy surround sound on your headphones. You can enjoy any one of the four Headphone surround functions.

#### Condition:

- Before performing this procedure, connect headphones to the TV.
- 1. Press OK.

The MENU appears.

#### 2. Press V/A to select HEADPHONE SURROUND. then press OK.

The HEADPHONE SURROUND menu appears, showing the currently active function.



If HEADPHONE SURROUND does not appear in the MENU, set SPEAKER in the HEADPHONE menu to OFF. For details, refer to "To listen to the sound using headphones" on page 8.

#### 3. Press V/A to select the desired function.

3D HEADPHONE: For a broad, atmospheric sound

DANCE CLUB: For the atmosphere of a dance club

CONCERT HALL: For the atmosphere of a concert hall

STADIUM: For the atmosphere of a stadium

HYPER SOUND:

To give monaural sound the spacious teeting of stereo sound

To cancel the function: Select SURROUND OFF.

#### 4. Press OK.

#### Note.

HYPER SOUND does not work well with stereo sound programmes.

#### To turn the 3D HEADPHONE on/off with one touch

#### 1. Press 3D.

3D HEADPHONE turns on.





Note:

If PRO LOGIC 3D-PHONIC is still displayed, set SPEAKER in the HEADPHONE menu to OFF.

To cancel the function: Press the 3D button again.

---

To return the previous surround function:

Press the 3D button twice.

#### DOLBY PRO LOGIC SURROUND

You can also use Dolby Pro Logic Surround sound with 4 or 5 speakers. If you wish to use this system, additional amplifiers and speakers are required. For details, see "To use 4 or 5 speakers" on page 28.

- Before performing the procedure. disconnect headphones from the TV.
- This function works only with Dolby Surround encoded programmes.
- 1. Press OK.

The MENU appears.

2. Press ▼/▲ to select DIGITAL SURROUND, then press OK.

> The DIGITAL SURROUND menu appears, showing the currently active function.



3. Press ▼/▲ to select DOLBY PRO LOGIC.

> To cancel the function: Select SURROUND OFF.

#### 4. Press OK.

#### Note:

If, while using this function, you connect headphones to the TV, the 3D HEADPHONE function (see above) activates automatically. However, note that you cannot use Dolby Pro Logic Surround with headphones. If SPEAKER is set to ON in the HEADPHONE menu. the HEADPHONE SURROUND function is not activated

# OTHER PREPARATION

#### **EXT SETTING**

You can select S-VIDEO or normal input for the EXT-2, EXT-3 and EXT-4 terminals, and you can give an EXT ID to each EXT input terminal.

# To select S-VIDEO input for a terminal

1. Press OK.

The MENU appears.

 Press ▼/▲ to select EXT SOURCE, then press OK.

The EXT SOURCE menu appears.



 Press ▼/▲ to select EXT SETTING, then press OK.

The EXT SETTING menu appears



- Press ▼/▲ to select an EXT input terminal.
- 5. Press yellow button.

The S-VIDEO input Indication appears.

 To select normal input, press yellow button again.



- If you want to set an EXT ID here perform the operation procedures from the step 4 of the section "To give an EXT ID to an EXT input terminal" in the next column.
- 6. Press OK.

The menu disappears.

# To give an EXT ID to an EXT input terminal

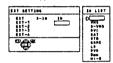
1. Press OK.

The MENU appears.

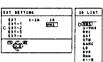
 Press V/▲ to select EXT SOURCE, then press OK.
 The EXT SOURCE menu appears.

- Press V/A to select EXT SETTING, then press OK.
   The EXT SETTING menu appears.
- Press ▼/▲ to select an EXT input terminal.
- 5. Press blue button.

The ID LIST appears.



Press ▼/▲ to select a EXT ID.



Note:

 To erase the EXT ID, select a blank space.

- 7. Press OK.
- This completes the procedure.
   Press the TV button to exit the menu.

#### **DUBBING**

Select output to a VCR or other device connected to the EXT-2 terminal. Note that you cannot output from the EXT-2 terminal when the TV is turned off.

Note:

- RGB signals from TV games and TELETEXT screens cannot be output from EXT-2 terminal.
- 7. Press OK.

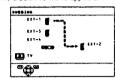
The MENU appears.

2. Press V/▲ to select EXT SOURCE, then press OK.

The EXT SOURCE menu appears.

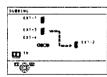
3. Press ▼/▲ to select DUBBING, then press OK.

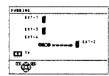
The DUBBING menu appears.

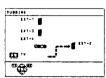


Press ▼/▲ to select the input which you want to output from EXT-2.

TV:
The sound and picture of the currently selected PR channel is output from EXT-2, so you can record the output on a VCR connected to the EXT-2 terminal while watching a video input from the EXT-1, EXT-2 or EXT-4 terminal. Even when a SUB picture is displayed. The output TV broadcast PR channel does not change. However, when another PR channel is being watched in the SUB picture, if the SWAP function is used, the output TV broadcast PR channel is switched.







5. Press OK.
The menu disappears.

#### LANGUAGE

You can select one of ten languages for the on-screen display.

1. Press OK.

The MENU appears

2. Press ▼/▲ to select INSTALL, then press OK.

The INSTALL menu appears.



3. Press ▼/▲ to select LANGUAGE, then press OK.

The LANGUAGE menu appears.



- Press ▼/▲ to select a language.
- 5. Press OK.

This completes the setting.

#### **AUTO PROGRAM**

You can automatically allocate up to 99 stations to PR channels PR 1 to PR99 on this TV.
When the TV receives a signal describing the station's name, it allocates those stations, station IDs, and registers then as they were preset at the JVC factory.

1. Press OK.

The MENU appears.

- 2. Press ▼/▲ to select INSTALL, then press OK.

  The INSTALL menu appears.
- Press ▼/A to select AUTO PROGRAM, then press OK.

The COUNTRY menu appears.



Press V/A / 
 to select your country.

#### Note:

- If you make a mistake when selecting your country, or do not want to use the Automatic allocation function, press OK button to return to the INSTALL
- 5. Press blue button.

The PR channel is automatically set and the EDIT menu is displayed.

- If you want to edit PR channels or allocate a station to PRO (AV) channel, see page 24 "EDIT/ MANUAL" for procedural description.
- Note
- If a station you want to view is not allocated to a PR channel, perform Manual allocation (see page 26).
- The procedure is complete.
   Press the TV button to exit the menu.

#### **EDIT/MANUAL**

You can change PR channel settings by doing any of the following:

- · You can delete an unwanted station from a PR channel.
- · You can change the PR channel number of a station,
- . You can add station IDs to PR channels.
- · You can add a new station to a PR channel, or
- · You can manually allocate the desired station to a PR channel.

#### To edit PR channels

- 1. Press OK. The MENU appears.
- 2. Press V/A to select INSTALL, then press OK. The INSTALL menu appears.
- 3. Press V/A to select EDIT/ MANUAL, then press OK.

The EDIT menu appears.



- 4. Use any of the procedures described in the following pages to change the PR channel settings.
- This completes the procedure. Press the TV button to exit the menu.

#### To delete a station from a | 3. Press ▼/▲ to move the PR channel

1. Press ▼/▲ to select the station you want to delete.



2. Press vellow button.



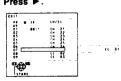
Stations allocated to PR channels following the deleted PR channel number are shifted back by one to the preceding PR channel number.

#### To change the PR channel number of a station

1. Press V/A to select the station.



2. Press ▶.

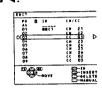


#### selected station to the desired PR channel number.

. To cancel the operation, press the (Information) button.



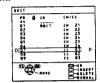
4. Press ◀.



.. 01

#### To add a station ID to a station

1. Press V/▲ to select the station.



2. Press red button.

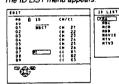


3. Press V/▲ to select the first letter of the desired station's ID.



4. Press blue button.

The ID LIST menu appears



- 5. Press V/A to select the station ID.
- · To cancel the operation, press the (Information) button.
- 6. Press OK.

Returns to the EDIT menu.



#### Programming a station's ID manually:

Follow the operations below in place of steps 3 thru 5.

- (1) Press the V/A button repeatedly to select a character.
- (2) Press the > button to move cursor to input position. Pressing the ◀ button moves the cursor backward.
- (3) To complete station ID, follow steps (1) and (2) repeatedly.
- A station ID can have up to 5 characters.

#### To add a new station to a PR channel

1. Press V/▲ to select the row containing the PR channel number to which you want to add a station.



- 2. Press green button.
- 3. Press V/▲ to display the enter number indicator.

CH: to add terrestrial broadcast stations

CC: to add cable TV stations

AV-32WP2EP, AV-32WZ2EP and AV-28WZ2EP only: If COUNTRY is set to FRANCE, select one of the following four

items: CH1: to add a system L terrestrial broadcast channel

CH2: to add a system B/G or I

terrestrial broadcast channel CC1: to add a system L cable TV channel

CC2: to add a system B/G or I cable TV channel

· To cancel the operation, press the (Information) button.



#### Note:

- For details on the relationship between the displayed CH/CC number and the actual channel number, see the Channel table on
- 4. Press the number buttons to enter the channel number.
  - · To enter a one-digit channel number, enter the corresponding number and press OK button.



#### Note:

When you add a station, the station preset to PR99 is deleted

# To manually allocate a station to PR channel (Manual allocation)

#### Condition:

If your TV is AV-32WP2EP, AV-32WZ2EP or AV-28WZ2EP, you can manually allocate French channels to PR channels

To manually allocate French stations to PR channels, you must set COUNTRY to FRANCE if COUNTRY is set to any other country than FRANCE, perform "AUTO PROGRAM" steps 1 thru 4 on page 23 to set COUNTRY to FRANCE Then press the OK button to return to the INSTALL menu. Finally perform "To edit PR channel" step 2 thru 3 on page 24 to return to the EDIT menu.

# Press ▼/▲ to select a PR channel number.

#### Note:

 PR channel number "AV" appears on the screen as PR 0 channel.
 We recommend that you allocate this PR channel to a VCR connected to the aerial socket.



#### 2. Press blue button.

Your TV enters the Manual allocation mode.



# 3. Press green or red button to search for a station.

Scanning stops when the TV receives a broadcast.

Press green or red button to search for another station, and keep searching until you see the station you want.

CH: Terrestnal broadcast stations CC: Cable TV stations

If reception is poor:
Press the blue or yellow button to fine-tune the station.

If your TV is AV-32WP2EP, AV-32WP2EP or AV-28W22EP: When COUNTRY is set to FRANCE, the broadcast system is displayed as "(B/G)", "(I") or "(L)" to the right of the PR channel number. If the signal of a station is incorrectly received, press the ▶ button to change the broadcast system and then repeat step 3.

#### Note:

 For details on the relationship between the displayed CH/CC number and the actual channel number, see the Channel table on page 31.

#### 4. Press OK.

The station is allocated to a PR channel.

# PICTURE TILT (except AV-28WZ2EN and AV-28WZ2EP)

The AV-32WP2EN, AV-32WP2EP, AV-32WZ2EP has a large picture tube in which a picture could be tilted to the left or right because of magnetic pull from the earth. Use the procedure described below to adjust the picture.

#### Note:

The AV-28WZ2EN or AV-28WZ2EP does not have the titled image correction function.

#### 1. Press OK.

The MENU appears.

 Press ▼/▲ to select PICTURE FEATURES, then press OK.

The PICTURE FEATURES menu appears.

3. Press ▼/▲ to select PICTURE TILT, then press

The PICTURE TILT menu appears.



#### Press ◄/► to select the direction to which you want to correct the tilted image on your screen.

- : If it is inclined to the left , select this symbol to correct
- : If it is inclined to the right, select this symbol to correct
- : If it is not inclined to either the left or right, select this symbol to set it as it is.

#### 5. Press OK.

The correction is complete.

# CONNECTING AMPLIFIERS AND SPEAKERS

#### Condition:

- When connecting audio amplifiers and speakers to your TV:
- and speakers to your TV:

   Turn the TV and audio amplifiers
- off before connecting them.

   Set the audio amplifiers' volume
- to minimum.

  Before to manuals provided with
- Refer to manuals provided with the amplifier and speakers for further details

#### Notes:

- The AUDIO OUT terminals on your TV are for connecting to an audio system. The output level is controlled by the Volume controls of your TV. The signal from the AUDIO OUT terminals will not cut off when headphones are connected.
- neacphones are connected

  \*If you connect a Doby Pro Logic

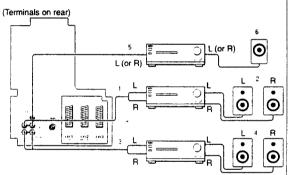
  Surround decoder to your TV, use the

  FRONT L and R jacks. Your TV has

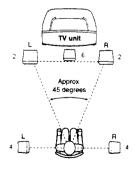
  Dolby Pro Logic Surround functions, so

  if you connect an external decoder, turn

  off all surround function on your TV.
- 1. 3: Stereo amplifier
  2: Front speakers (magnetic-shielded type, L. R)
- 4: Surround speakers (L. R)
- 5: Stereo amplifier (or monaural amplifier)
- 6: Centre speaker (magnetic-shielded type)



#### Positioning speakers



#### Notes:

- For a good effect, place speakers 4
- 1.0 m above the seated listener's head
   For a good effect, place speaker + as close as possible to the TV along the
- same line as or behind, speakers ...

   Use magnetic-shielded speakers for speakers ∠ and ← to avoid TV interference.

# To use 2 external speakers

You can cut off the sound output from the TV's speakers and enjoy sound from external front speakers

- Connect stereo amplifier ①
   and front speakers ② to
   your TV.
- Turn your TV on, and press the Volume -/+ button to set the volume to the lowest setting.
- 3. Press OK.

The MENU appears.

 Press ▼/▲ to select SOUND SETTING, then press OK.

The SOUND SETTING menu appears.



#### Note:

- When DOLBY PRO LOGIC or PRO LOGIC 3D-PHONIC is selected in DIGITAL SURROUND menu. "SPEAKER" does not appear in this case, press the Ok button to exit the current menu Then, press the 3D button twice to select SURROUND OFF and repeat from Step 3.
- Press ♥/▲ to select SPEAKER.

#### 6. Press </br> √ to select OFF.

The TV's speakers become silent.

To output sound from the TV

speakers:
Set SPEAKER to ON.

7. Press OK.

The menu disappears.

When using the TV speakers as the centre speaker:

When enjoying the DOLBY PRO LOGIC 3D-PHONIC surround sound, it can be set so that 2 external speakers and the TV speakers (used as the centre speaker) can be used at the same time.

(Continued to the next page)

In particular, since models other than AV-32WP2EN and AV-32WP2EP do not have a centre speaker builtin to the TV, if this method is used the "dialogue" becomes clearer.

- 1. Press OK.
- The menu appears.
- 2. Press V/A button to select DIGITAL SURROUND, then press OK. The DIGITAL SURROUND menu appears.
- 3. Press ▼/▲ button to select PRO LOGIC 3D-PHONIC, then press ▶.

The PRO LOGIC 3D-PHONIC menu appears.



- 4. Press ▼/▲ button to select TV SPEAKER, then press ◀/▶ button to select CENTRE.
- 5. Press OK. The menu disappears.
- 8. Turn your audio amplifier on, and return the volume of your audio amplifier to the normal setting.

#### Note:

- Take care not to set the volume of your audio amplifier too high as this may damage your speakers.
- 9. Press the Volume -/+ button to adjust the volume.
- This completes the procedure.

You can enjoy Dolby Pro Logic Surround sound with 4 or 5 speakers.

- 1. Connect audio amplifiers and speakers to the TV.
  - Do one of the following:
  - A: Connect stereo amplifier 3 and surround speakers 4.
    - . If your TV is AV-32WP2EN or AV-32WP2EP, it has a centre speaker built-in and you can easily enjoy Dolby Pro Logic surround sound using 5 speakers.
    - . If your TV is not AV-32WP2EN or AV-32WP2EP. although it does not have a centre speaker built-in to the TV. you can easily enjoy Dolby Pro Logic surround sound by using the PHANTOM mode which omits the centre speaker.
  - B: Connect stereo amplifiers 1. ? front speakers 2, and surround speakers 4. This uses the TV's speakers as the centre speakers.
  - C: Connect stereo amplifiers 1, 3, stereo amplifier (or monaural amplifier) 5, front speakers 2, surround speakers 4, and centre speaker 6. If you use this method, do not output sound from the TV's speakers.
- 2. Turn your TV on, and press the Volume -/+ button to set the volume to the normal setting.
- 3. Press OK.
  - The MENU appears.
- 4. Press V/A to select DIGITAL SURROUND, then press OK.

The DIGITAL SURROUND menu appears, showing the currently selected setting.

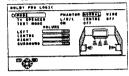


II DIGITAL SURROUND does not appear, disconnect the headphones

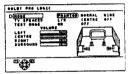
To use 4 or 5 speakers 5. Press V/A to select DOLBY PRO LOGIC, then press ▶.

> The DOLBY PRO LOGIC menu appears.

> In the case of AV-32WP2EN or AV-32WP2EP:



In the case of models other than AV-32WP2EN and AV-32WP2EP:



6. Press V/▲ to select an item, and press 4/▶ to change its setting.

> in the case of AV-32WP2EN or AV-32WP2FP

11-52177	ltem .			
Method	MODE	TV SPEAKER		
A	NORMAL	L/R/C		
В	NORMAL	CENTRE		
<b>©</b>	NORMAL	OFF		
<u> </u>	WIDE	5,1		

In the case of models other than AV-32WP2EN and AV-32WP2EP:

	Item			
Method	MODE	TV SPEAKER		
A	PHANTOM	L/R		
•	NORMAL	CENTRE		
[C]	NORMAL	OFF		
lei	WIDE	011		

Set MODE to WIDE when using a full-range speaker as the centre speaker. Frequencies of 100 Hz or lower are output from the centre speaker to give Dolby Surround an even greater impact.

Since AV-32WP2EN and AV-32WP2EP have a centre speaker built-in to the TV, it is not necessary to select the PHANTOM mode. If the PHANTOM mode is selected.

sound is prevented from coming

7. Turn your audio amplifier on, and return the volume of your audio amplifier to the normal setting.

out of the centre speaker.

- Take care not to set the volume of your audio amplifier too high as this may damage your speakers
- 8. Press V/A to select TEST MODE.

9. Press **4/**▶ to set TEST MODE to ON.

Test signals alternate among the

#### Note:

- If the test signal level is small to listen to adjust it with the volume of your audio amplifier. However, take care not to set the volume too high as this may damage your
- 10.Press </b>
  In adjust the level of each of the speakers so that their volumes are the same at the listening position (the place where the person is sitting in the diagram, see page 27).

LEFT, RIGHT:

#### Front speaker L. R CENTRE:

Centre speaker

#### SURROUND:

#### Surround speakers

#### Notes: When MODE is set to PHANTOM. the volume of CENTRE: (Centre

- speaker) cannot be adjusted. If the volume of both speakers is not the same even after adjusting the volume, adjust the volume of
- 11.Press OK.

The menu disappears.

This completes the procedure.

your audio amplifier.

# TROUBLESHOOTING

. If the plug is disconnected from the AC socket, or the TV aerial has problems, you may think there is a problem with the TV itself. Be sure to check the following before calling for service.

· Review all instructions in this manual.

	Problem -	Action
S GENERAL	No power supply.	Insert the plug in an AC socket. Press the Main power button (see page 6).
	No picture or sound.	Check aerial connections (see page 4).  Press the number 0 button to select the correct mode (see page 10).  Select the correct colour system manually (see page 11).
	The power shuts off automatically.	Press the Standby button to turn the power on again (see page 6)
	Inoperable remote control.	Replace the batteries (see page 2). Insert the batteries correctly (see page 2). Use the remote control within about 7 metres of the TV.
	MENU can not be displayed.	Are you watching the Teletext screen?  None of the MENU operations are possible in the Text mode. Perform the MENU operation after pressing the TV/Text button to cancel the Text mode.
■ PICTURE	Poor colour.	Adjust COLOUR and BRIGHT (see page 12). Select the correct colour system manually (see page 11).
	The screen mode suddenly changed.	The ZOOM mode's automatic selective function is working (see page 13).
	The picture is tilted (AV-32WP2EN/EP. AV-32WZ2EN/EP only).	Use the PICTURE TILT to correct the tilt (see page 26).
	The SUB-picture image is disordered.	If the MAIN-picture image signal condition is bad, the SUB-picture image may be disordered. If the MAIN-picture image signal condition is improved, the SUB-picture image also improves.
	The top and bottom of the MAIN-picture or SUB-picture are missing.	If the picture standard of the MAIN-picture and SUB-picture are different, the top and bottom of one of them may be missing.
	The SUB-picture display suddenly disappears.	If an external device is operated, the SUB-picture may disappear. If this happens, press the PIP button once more and redisplay the SUB picture.

#### **TROUBLESHOOTING**

	Problem	Action		
■ PICTURE	The same image is displayed in both the MAIN-picture and SUB-picture.	If the SWAP button is pressed when the image from the external decoder is displayed in the MAIN-picture, the same image is displayed in both the MAIN-picture and SUB picture. If the SWAP button is pressed once more, the previous state is returned to.		
	Lines or streaks in picture (interference).	Move the components apart until the interference is eliminated. Reposition the aenal.		
	Spots (crosstalk).	Reposition the aerial. Replace with an aerial with better directionality.		
	Double pictures (ghosts).	Reposition the aenal. Replace with an aenal with better directionality.		
	Snowy pictures (noise).	Check aerial connections. Redirect the aerial. Replace or repair the aerial.		
	The screen turns blue.	The BLUE BACK function is on (see page 16).		
SOUND	No sound from the TV's speakers.	Disconnect the headphones. If you want to have sound come from both the TV's speaker and headphones, set TV SPEAKER in the HEADPHONE menu to ON. (See page 8.) Set SPEAKER to ON (see page 27).		
	The headphone volume level can not be adjusted.	It can not be adjusted with the Volume -/+ button. Adjust it with th VOLUME function in the HEADPHONE menu. (See page 8.)		
	The sound from the TV does not stop even if the headphones are connected.	TV SPEAKER in the HEADPHONE menu is set to ON. Change the setting to OFF. (See page 8.)		
	No stereo sound.	Change STEREO/I•II to ① mode (see page 11), Is TV SPEAKER on the PRO LOGIC 3D-PHONIC menu or DOLBY PRO LOGIC menu set to CENTRE? Change the TV SPEAKER setting to L/R/C or L/C. (See pages 27 and 28.) When the SUB-picture is in TV mode, the SUB-picture sound is monaural only.		
	No "SUB-I" or "SUB-II" sound in a multisound broadcast.	Change STEREO/I*I to the correct mode (see page 11). The Multi sound function does not work for the SUB-picture sound.		
	Surround function does not function properly.	Dolby Pro Logic Surround and DOLBY PRO LOGIC 3D-PHONIC work properly only with Dolby Surround encoded programmes. Functions other than HYPER SOUND and the Headphone surround functions work properly only with stereo programmes. HYPER SOUND works properly only with monaural programmes. None of the surround sound functions work for the SUB picture sound.		
	The POWER BASS function does not work.	Are you listening to the SUB picture sound? The POWER BASS function does not work for the SUB picture sound.		
■ TELETEXT	No teletext reception.	Tune to a teletext broadcast channel (see page 18). We recommend that you not videotape teletext, as it may not be recorded correctly.		
	The current time is not displayed.	Tune to a teletext broadcast channel (see page 16).		

#### The following are normal and are NOT malfunctions:

- When you touch the CRT surface, you might feel a slight charge of static electricity. This is because the CRT contains static electricity: it does not affect the human body.
- The TV may emit a crackling sound due to a sudden change in temperature. There is no problem unless the picture or sound is abnormal.
- When a bright a still image (of a white dress, for example) appears on the screen, the image may be coloured. This problem
  occurs in all CRTs, and as the bright image disappears, such colouration also disappears.
- This TV is equipped with a microcomputer that may operate abnormally due to interference from external components. If this happens, turn off the main power and disconnect the power cord from the AC socket. Then reconnect the power cord to AC socket and turn on the main power again.

# Channel table

- The following table shows the relationship between the displayed CH/CC channel number and the actual channel number.
- The actual channel numbers for the "CC" channel numbers from CC110 to CC161 differ depending on the cable
  TV station. Check which actual channel numbers correspond to which "CC" channels while referring to the
  broadcast frequencies which are indicated in the channel tables of each cable TV station. If you can not find the
  broadcast frequency for a channel, contact the cable TV station.

СН	Channel	СН	Channel	cc	Channel
CH 02 / CH 202	E2	CH 40 / CH 240	E40	CC 01 / CC 201	S1
CH 03 / CH 203	E3. ITALY A	CH 41 / CH 241	E41	CC 02 / CC 202	S2
CH 04 / CH 204	E4, ITALY B	CH 42 / CH 242	E42	CC 03 / CC 203	S3
CH 05 / CH 205	E5. ITALY D	CH 43 / CH 243	E43	CC 04 / CC 204	54
CH 06 / CH 206	E6. ITALY E	CH 44 / CH 244	E44	CC 05 / CC 205	S5
CH 07 / CH 207	E7. ITALY F	CH 45 / CH 245	E45	CC 06 / CC 206	S6
CH 08 / CH 208	E8	CH 46 / CH 246	E46	CC 07 / CC 207	S7
CH 09 / CH 209	E9, ITALY G	CH 47 / CH 247	E47	CC 08 / CC 208	S8
CH 10 / CH 210	E10, ITALY H	CH 48 / CH 248	E48	CC 09 / CC 209	S9
CH 11 / CH 211	E11, ITALY H+1	CH 49 / CH 249	E49	CC 10 / CC 210	S10
CH 12 / CH 212	E12, ITALY H+2	CH 50 / CH 250	E50	GC 11 / CC 211	S11
CH 21 / CH 221	E21	CH 51 / CH 251	E51	CC 12 / CC 212	S12
CH 22 / CH 222	E22	CH 52 / CH 252	E52	CC 13 / CC 213	S13
CH 23 / CH 223	E23	CH 53 / CH 253	€53	CC 14 / CC 214	S14
CH 24 / CH 224	E24	CH 54 / CH 254	E54	CC 15 / CC 215	S15
CH 25 / CH 225	E25	CH 55 / CH 255	E55	CC 16 / CC 216	\$16
CH 26 / CH 226	E26	CH 56 / CH 256	E56	GC 17 / GC 217	S17
CH 27 / CH 227	E27	CH 57 / CH 257	E57	CC 18 / CC 218	518
CH 28 / CH 228	E28	CH 58 / CH 258	E58	CC 19 / CC 219	S19
CH 29 / CH 229	E29	CH 59 / CH 259	E59	CC 20 / CC 220	S20
CH 30 / CH 230	E30	CH 60 / CH 260	E60	CC 21 / CC 221	S21
CH 31 / CH 231	E31	CH 61 / CH 261	E61	CC 22 / CC 222	S22
CH 32 / CH 232	E32	CH 62 / CH 262	E62	CC 23 / CC 223	S23
CH 33 / CH 233	E33	CH 63 / CH 263	E63	CC 24 / CC 224	S24
CH 34 / CH 234	E34	CH 64 / CH 264	E64	CC 25 / CC 225	\$25
CH 35 / CH 235	E35	CH 65 / CH 265	E65	CC 26 / CC 226	S26
CH 36 / CH 236	E36	CH 66 / CH 266	E66	CC 27 / CC 227	S27
CH 37 / CH 237	E37	CH 67 / CH 267	E67	CC 28 / CC 228	S28
CH 38 / CH 238	E38	CH 68 / CH 268	E68	CC 29 / CC 229	S29
CH 39 / CH 239	E39	CH 69 / CH 269	E69	CC 30 / CC 230	S30

CC 31 / CC 231	S31
CC 32 / CC 232	S32
CC 33 / CC 233	S33
CC 34 / CC 234	S34
CC 35 / CC 235	S35
CC 36 / CC 236	S36
CC 37 / CC 237	S37
CC 38 / CC 238	S38
CC 39 / CC 239	539
CC 40 / CC 240	S40
CC 41 / CC 241	S41
CC 75 / CC 275	х
CC 76 / CC 276	Y
CC 77 / CC 277	Z. ITALY C
CC 78 / CC 278	Z+1
CC 79 / CC 279	Z+2

Channel

(Continued to the next page)

#### Channel table

СН	Channel	СН	Channel	cc	Frequency (MHz)
CH 102	F2	CH 141	F41	GC 110	116 - 124
CH 103	F3	CH 142	F42	CC 111	124 - 132
CH 104	F4	CH 143	F43	CC 112	132 - 140
CH 105	F5	CH 144	F44	CC 113	140 - 148
CH 106	F6	CH 145	F45	CC 114	148 - 156
CH 107	F7	CH 146	F46	CC 115	156 - 164
CH 108	F8	CH 147	F47	CC 116	164 - 172
CH 109	F9	CH 148	F48	CC 123	220 - 228
CH 110	F10	CH 149	F49	CC 124	228 - 236
CH 121	F21	CH 150	F50	CC 125	236 - 244
CH 122	F22	CH 151	F51	CC 126	244 - 252
CH 123	F23	CH 152	F52	CC 127	252 - 260
CH 124	F24	CH 153	F53	CC 128	260 - 268
CH 125	F25	CH 154	F54	CC 129	268 - 276
CH 126	F26	CH 155	F55	CC 130	276 - 284
CH 127	F27	CH 156	F56	CC 131	284 - 292
CH 128	F28	CH 157	F57	CC 132	292 - 300
CH 129	F29	CH 158	F58	CC 133	300 - 306
CH 130	F30	CH 159	F59	CC 141	306 - 311
CH 131	F31	CH 160	F60	CC 142	311 - 319
CH 132	F32	CH 161	F61	CC 143	319 - 327
CH 133	F33	CH 162	F62	CC 144	327 - 335
CH 134	F34	CH 163	F63	CC 145	335 - 343
CH 135	F35	CH 164	F64	CC 146	343 - 351
CH 136	F36	CH 165	F65	CC 147	351 - 359
CH 137	F37	CH 166	F66	CC 148	359 - 367
CH 138	F38	CH 167	F67	- CC 149	367 - 375
CH 139	F39	CH 168	F68	CC 150	375 - 383
CH 140	F40	CH 169	F69		

cc	Frequency (MHz)
CC 151	383 - 391
CC 152	391 - 399
CC 153	399 - 407
CC 154	407 - 415
CC 155	415 - 423
CC 156	423 - 431
CC 157	431 - 439
CC 158	439 - 447
CC 159	447 - 455
CC 160	455 - 463
CC 161	463 - 469

# **SPECIFICATIONS**

Model	AV-32WP2EN	AV-32WZ2EN	AV-28WZ2EN
Item			
TV RF systems	CCIR B/G		
Colour systems	PAL, SECAM (NTSC 3.58 / 4.43 M		
Channels and frequencies	E2-E12, E21-E69, S1-S41, X, Y, Z	Z, Z+1, Z+2, A-H, H+1, H+2	
Sound-multiplex systems	A2/NiCAM system		
Teletext systems	Fastext (United Kingdom system)	/ TOP (German system) / WST (sta	andard system)
Power requirements	AC 220 - 240 V, 50 Hz		
Power consumption	Maximum 266 W, Average 161 W, Standby 0.8 W	Maximum 248 W, Average 151 W, Standby 0.8 W	Maximum 242 W. Average 147 W, Standby 0.8 W
Picture tube size	Visible area 76 cm (measured diagonally)	Visible area 66 cm (measured diagonally)	
Audio output	Rated Power output 20 W + 20 W + 5 W	Rated Power output 20 W + 20 W	
Speakers	10 cm round × 2, 3.5 cm round × 2, (10 cm × 3 cm oval) × 1	10 cm round × 2, 3.5 cm round × 2	
External input / output	EXT-1, EXT-2, EXT-3	21-pin Euroconnector (SCART)	
	EXT-4	VIDEO IN (RCA) AUDIO L / R IN (RCA) S-VIDEO IN (Mini Din 4-pin)	
	AUDIO OUT	(Variable out (0-1 Vrms), low impedance) CENTRE output (RCA) FRONT L/R output (RCA) SURROUND REAR L/R output (RCA)	
	Headphone jack (stereo mini jack	c, dia. 3.5 mm)	
Dimensions (W × H × D)	805 mm × 550 mm × 550 mm		716 mm × 489 mm × 496 mm
Weight	50.3 kg	50.3 kg 50.2 kg	
Accessories	Remote control unit RM-C791 × 1 AAA (R03) dry cell battery × 2	Remote control unit RM-C793 × AAA (R03) dry cell battery × 2	1

#### Design and specifications subject to change without notice.

Pictures displayed on the screen using this TV's image-processing functions should not be shown for any commercial or demonstration purpose in public places (tearooms and halls in hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.